



363506

**SITE ASSESSMENT REPORT  
FOR  
ANCHOR METAL FINISHING  
SCHILLER PARK, COOK COUNTY, ILLINOIS  
REVISION 1**

**NPL STATUS: NON-NPL**

Prepared for:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
Emergency Response Branch  
Region V  
77 West Jackson Boulevard  
Chicago, IL 60604-3507

Prepared by:

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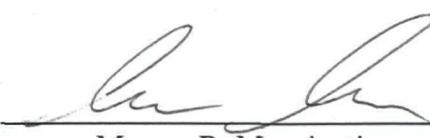
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## LIST OF ABBREVIATIONS AND ACRONYMS

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µg/L	Microgram per liter
µg/kg	Microgram per kilogram
°F	Degree Fahrenheit
CFR	<i>Code of Federal Regulations</i>
ft <sup>2</sup>	Square foot
IEPA	Illinois Environmental Protection Agency
MEK	Methyl ethyl ketone
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
mg/wipe	Milligram per wipe
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OSC	On-Scene Coordinator
PCB	Polychlorinated biphenyl
PPE	Personal protective equipment
RV	Recreational vehicle
START	Superfund Technical Assessment and Response Team
SU	Standard unit
SVOC	Semivolatile organic compound
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity characteristic leaching procedure
TDD	Technical Direction Document
U.S. EPA	United States Environmental Protection Agency
VOC	Volatile organic compound
WESTON	Weston Solutions, Inc.
yd <sup>3</sup>	Cubic yard

## 1. INTRODUCTION

The United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to assist U.S. EPA in performing a site assessment at Anchor Metal Finishing in Schiller Park, Cook County, Illinois (the Site). Under Technical Direction Document (TDD) number S05-0001-0910-001, U.S. EPA requested that WESTON START document current site conditions; collect liquid, waste, soil, and wipe samples; obtain photographic documentation; and evaluate the potential for imminent and substantial threats to human health, human welfare, and the environment posed by Site conditions. On October 15, 2009, WESTON START conducted a site assessment under the direction of U.S. EPA On-Scene Coordinator (OSC) Fred Micke.

This site assessment report is organized into the following sections:

- **Introduction** – Provides a brief description of the objective and scope of site assessment activities;
- **Site Background** – Details the Site description and its known history;
- **Site Assessment Activities** – Discusses the methods and procedures used during the site assessment;
- **Analytical Results** – Discusses analytical results for samples collected during the site assessment;
- **Threats to Human Health and the Environment** – Identifies Site conditions that may warrant a removal action under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP); and
- **Conclusions** – Provides a summary of the site assessment.

Tables and figures are presented after the conclusions section. In addition, this site assessment report contains two appendices: Appendix A provides a photographic log of Site conditions at the time of the site assessment and site assessment activities, and Appendix B provides the laboratory analytical and data validation reports for samples collected during the site assessment.

## 2. SITE BACKGROUND

This section discusses the site description and site history.

### 2.1 SITE DESCRIPTION

The Site is located at 9355 Bernice Avenue in Schiller Park, Cook County, Illinois (Figure 1-1). The meridian coordinates for the Site are latitude 41° 56' 53.86" North and longitude 87° 51' 40.27" West. The Site contains a one-story brick building with an area of approximately 10,000 square feet ( $\text{ft}^2$ ) that includes a small metal loft, an office in the northeast corner, and a partially walled workshop in the middle of the building's main floor. The building has a concrete floor except for a gravel area along the south wall. A gravel parking area is located north and east of the building. The gravel parking area occupies approximately 26,000  $\text{ft}^2$ . During the site assessment, the parking lot contained passenger vehicles, a couple of excavators, a pay loader, a recreational vehicle (RV), a semitrailer, roll-off boxes, drums, and general debris. Figure 1-2 shows an aerial photograph of the Site features.

The Site is located in an industrial park area bordered by commercial trucking businesses to the east and south and industrial businesses to the north and west. Residences are located within 0.20 mile southwest and 0.20 mile north and northeast of the Site. Several schools and a hospital are located near the Site, including East Leyden High School, Lincoln Middle School, a daycare center, and Animal Care Hospital. The Des Plaines River is located 0.30 mile east of the Site.

During the site assessment, the Site was surrounded by an approximately 8-foot-high chain-link fence with a padlocked front gate. No compromised areas were observed in the fence. The building has entrances on the north, east, and south sides. The north side entrance consisted of four overhead doors and three service doors. The east side has one overhead door, and the south side has two doors, one to the attached generator building, which was never entered during the site assessment, and the other to the main building. Several of the doors were unlocked or open, which would allow unrestricted access to the building if the Site fence were compromised.

## 2.2 SITE HISTORY

Anchor Metal Finishing, Inc., was a black oxide finisher that used chemical conversion on steel, a process that did not involve electroplating. Before Anchor Metal Finishing, Inc., Royal Metal Finishers conducted finishing operations at the Site. Royal Metal Finishers conducted two primary on-site operations: zinc plating on carbon steel and black oxidizing of steel. Royal Metal Finishers also conducted smaller operations for black oxidizing of stainless steel and copper plating on carbon steel. Process wastes generated by Royal Metal Finishers included filter press wastes, zinc bath sludge, iron oxide sludge, copper bath sludge, and zinc plating cleaner sludge. Royal Metal Finishers ceased operations at the Site in the late 1980s, around the time when Anchor Metal Finishing began renting space in the Site building.

On January 8, 2008, the Illinois Environmental Protection Agency (IEPA) responded to a complaint that Anchor Metal Finishing, Inc. was relocating to another location and moving drums in the middle of the night. IEPA inspectors completed an inventory of processed waste with the Anchor Metal Finishing, Inc., foreman, Daniel Wozniak. The IEPA inspectors advised Mr. Wozniak to develop and submit a formal written inventory of all the chemicals and materials at the Site. Because of the large number of drums, their poor condition, and uncontrolled Site conditions related to waste storage, IEPA requested U.S. EPA's assistance.

### 3. SITE ASSESSMENT ACTIVITIES

This section discusses the site reconnaissance and observations and sampling activities.

#### 3.1 SITE RECONNAISSANCE AND OBSERVATIONS

On October 15, 2009, U.S. EPA OSC Fred Micke and WESTON START mobilized to the Site to conduct a site assessment.

During the initial site reconnaissance, WESTON START conducted air monitoring in the breathing zone using a MultiRAE five-gas meter, ToxiRAE single-gas monitor with hydrogen cyanide gas sensor, and MicroR gamma radiation detector. The MultiRAE five-gas monitor includes a photoionization detector that measures for organic vapors, a carbon monoxide sensor, a hydrogen sulfide sensor, a lower explosive limit meter, and an oxygen meter. The MultiRAE five-gas monitor, ToxiRAE hydrogen cyanide-gas monitor, and MicroR did not indicate any readings above background levels.

The photographic log in Appendix A depicts the Site conditions at the time of the site reconnaissance. Observations made during the site reconnaissance are summarized below. Figure 3-1 shows the Site layout on the ground floor and in the loft area of the Site building observed during the site reconnaissance. Table 3-1 presents an inventory of the containers and potentially hazardous materials observed during the site reconnaissance.

The on-site building is in general disrepair. The Village of Schiller Park placed a "No Occupancy" sign on the front door of the building. It was raining during the site assessment, and the roof was leaking in multiple places where it was torn off during high winds. The main floor of the building contained approximately 125 55-gallon drums, including unmarked containers, drums labeled "Muriatic Acid," and a drum labeled "Hazardous Waste." Other waste material observed included 22 1-cubic-yard ( $yd^3$ ) cardboard boxes of sludge; an in-ground vat running along the south wall containing approximately 5,400 gallons of liquid with 4 inches of sludge at the bottom; a sump in the northwest corner; and 28 partially filled 5-gallon pails. Rainwater was observed pooling near the open sludge boxes. The loft area contained approximately 75 55-gallon half-filled drums of sludge

and several open drums of unknown waste that had formed crystals around the tops of the drums. Many of the drums both on the main floor and in the loft were filled with unknown contents at or above the drums' capacities. Several of the drum storage areas had inadequate aisle, making it difficult to inspect the condition of some drums. Most of the drums were open and stored on pallets.

According to the IEPA narrative from the site inspection on January 8, 2008, the building's electricity was not in service, but when WESTON START and the U.S. EPA arrived on Site, the electricity was back on in both the office and main building, which provided minimal lighting. An RV located just outside and east of the building and south of the overhead door shown in Figure 1-2 appeared to be occupied and was drawing power from the building through an extension cord.

### **3.2 SAMPLING ACTIVITIES**

Table 3-2 summarizes the samples collected at the Site, and Figure 3-2 shows the sampling locations on the ground floor and in the loft area of the on-site building, respectively.

Five liquid waste samples plus one field duplicate sample were collected from WL01 through WL05 using glass drum thieves and disposable polyethylene bailers. The pH of each liquid sampled was tested prior to sampling. The sample from WL01 consisted of a brown liquid with a field pH of 9 standard units (SU) from an in-ground vat on the south wall of the main floor of the building. The sample from WL02 consisted of a brown liquid from a sump in the northwest corner of the building. Liquid waste samples were collected from WL03 through WL05 from 55-gallon drums on the west side of the main floor of the building. The liquid waste sample from WL03 consisted of a red liquid from an unlabeled drum. The liquid waste sample from WL04 consisted of a cloudy liquid with a field pH of 14 SUs from a drum labeled "Muriatic Acid." The liquid waste sample from WL05 consisted of a light-green liquid from a drum labeled "Muriatic Acid" with a field pH of 2 SUs.

Eight solid/sludge waste samples plus one field duplicate sample were collected from WS01 through WS08 from drums on both the main floor and loft area of the on-site building. The solid/sludge waste samples were collected using disposable polyethylene scoops. The sample from WS01 consisted of a thick brown substance from the in-ground vat on the main floor. The solid waste

sample from WS02 was a composite of a dark-brown to black sludge collected from 6 5-gallon pails staged on a pallet of 12 pails on the main floor. The solid waste samples from WS03 and WS04 consisted of moist dark-brown to black sludge from two separate 1-yd<sup>3</sup> boxes near the northwest corner of the main floor. The sample from WS05 was collected from an uncontained pile of dark-brown sludge on the floor between the two shelving units near pooling water on the main floor. The sample from WS06 was a composite of sludge material from four drums located in the loft area. The solid sample from WS07 was submerged crystalline material collected from a 55-gallon drum near the southwest corner of the main floor. The sample from WS08 was collected from a 55-gallon drum labeled "Hazardous Waste" that contained a solid surface and liquid sub-surface.

Three soil samples were collected from SS01 through SS03 from both inside and outside of the building. The solid/sludge waste samples were collected using disposable scoops and easy-draw syringes for the VOC samples. The sample from SS01 was collected from exposed soil in southwest corner of the building. The soil sample from SS02 was collected outside the south exterior wall below a stain on the wall. The sample from SS03 was collected just outside the westernmost service door on the north side of the building. Soil samples submitted for VOC analysis were preserved with methanol and sodium bisulfate.

Three wipe samples plus one field duplicate sample were collected from WP01 through WP03 both inside and outside of the building. The wipe samples were collected using gauze pads moistened with distilled water. The wipe sample from WP01 was collected from the west interior wall just north of the gravel area. The sample from WP02 was collected from a stain on the southern outside exterior wall. The sample from WP03 was collected from the southern interior wall just east of the doorway.

The sampling activities were conducted in Level B personal protective equipment (PPE) in accordance with the approved site-specific health and safety plan. Fresh sampling gloves were donned before sampling activities began at each new sampling location as necessary. All sample containers were filled directly from the bailers, drum thieves, scoops, easy-draw syringes, or gauze and labeled with the sample identification numbers. All sampling information was recorded in the

Site logbook and on the chain-of-custody forms. All samples were preserved with ice and submitted under chain of custody to First Environmental Laboratories, Inc., in Naperville, Illinois, for the following combination of analyses: Target Compound List (TCL) volatile organic compounds (VOC), TCL semivolatile organic compounds (SVOC), Target Analyte List (TAL) metals, Toxicity Characteristic Leaching Procedure (TCLP) metals, corrosivity, ignitability, polychlorinated biphenyls (PCB), and total cyanide.

## 4. ANALYTICAL RESULTS

Five investigative liquid waste samples (plus one field duplicate sample), eight investigative solid/sludge waste samples (plus one field duplicate sample), three investigative soil samples, and three wipe samples (plus one field duplicate sample) were collected from the Site to determine if the Site poses imminent and substantial threats to human health, human welfare, or the environment. This section discusses the analytical results for the liquid waste, solid/sludge waste, soil, and wipe samples. Appendix B provides the laboratory analytical and data validation reports for the sample results. Analytical results for the TCLP metals and general chemistry parameters were compared to the hazardous waste criteria outlined in Title 40 of the Code of Federal Regulations (40 CFR), Part 261, Subpart C.

### 4.1 LIQUID WASTE SAMPLE ANALYTICAL RESULTS

Tables 4-1a through 4-1d, respectively, summarize the liquid waste sample analytical results for TCL VOCs, TCL SVOCs, TAL metals, and general chemistry parameters (corrosivity, ignitability, PCBs, and total cyanide). The samples from WL01, WL02, and WL04 were analyzed for TCL VOCs, TCL SVOCs, TAL metals, total cyanide, corrosivity, and PCBs. Sample WL03 was analyzed for TCL VOCs, TCL SVOCs, TAL metals, total cyanide, ignitability, corrosivity, and PCBs. Sample WL05 was for corrosivity only. Results are summarized below.

- **TCL VOCs (see Table 4-1a):** The only VOC detected in the liquid waste samples was acetone. No other VOCs were detected.
  - Acetone was detected in the liquid waste sample from WL04 at a concentration of 162 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ).
- **TCL SVOCs (see Table 4-1b):** SVOCs were detected in liquid waste samples from WL02 only.
  - The liquid waste sample from WL02 contained benzo(a)pyrene at a concentration of 313  $\mu\text{g}/\text{kg}$ , fluoranthene at a concentration of 703  $\mu\text{g}/\text{kg}$ , and pyrene at a concentration of 514  $\mu\text{g}/\text{kg}$ .
- **TAL Metals (see Table 4-1c):** Metals were detected at various concentrations in the liquid waste samples. The highest detected metals concentrations were for potassium, sodium, and zinc as discussed below.

- Potassium was detected in all five investigative liquid waste samples at concentrations ranging from 23 to 1,860 milligrams per kilogram (mg/kg). The highest concentration of potassium was detected in the field duplicate liquid waste sample collected from WL03.
- Sodium was detected in all five investigative liquid waste samples at concentrations ranging from 202 to 106,000 mg/kg. The highest concentration of sodium was detected in the liquid waste sample WL03.
- Zinc was detected all five investigative liquid waste samples at concentrations ranging from 1.8 to 1,010 mg/kg. The highest concentration of zinc was detected in the field duplicate liquid waste sample collected from WL03.
- **Corrosivity (see Table 4-1d):** The liquid waste samples from WL-03 (including the duplicate) and WL-04 had pH results of 14 SU. In addition, the liquid waste sample from WL05 had a pH of 1 SU. Liquid samples that exhibit the characteristics of corrosivity have a pH less than or equal to 2 or greater than or equal to 12.5 according to 40 CFR 261.22. Therefore, these four liquid waste samples meet the definition of hazardous waste for the characteristic of corrosivity.
- **Ignitability (see Table 4-1d):** The sample from WL03 (including the duplicate) was analyzed for flashpoint. The samples indicated a flash greater than 212 degrees Fahrenheit (°F). Liquid samples that show characteristics of ignitability have a flash point less than 140°F according to 40 CFR 261.21. Therefore, samples WL03 and WL03D does not meet the definition of hazardous waste for the characteristic of ignitability.
- **PCBs (see Table 4-1d):** PCBs were not detected in any of the investigative liquid waste samples analyzed for PCBs.
- **Total Cyanide (see Table 4-1d):** The detected total cyanide investigative liquid waste sample results ranged from 0.18 to 3.51 mg/kg. The highest concentration of total cyanide was detected in the duplicate liquid waste sample from WL03.

## 4.2 SOLID/SLUDGE WASTE SAMPLE ANALYTICAL RESULTS

Tables 4-2a through 4-2c, respectively, summarize the solid waste sample analytical results for TCLP metals, TCL VOCs, TCL SVOCs, TAL metals, and general chemistry parameters (corrosivity, PCBs, and total cyanide). The samples from WS01 through WS06 and WS08 were analyzed for TCLP metals, TCL VOCs, TCL SVOCs, TAL metals, total cyanide, corrosivity, and PCBs. The sample from WS07 was analyzed for TCLP metals, TAL metals, total cyanide, and corrosivity. Results are summarized below.

- **TCLP Metals (see Table 4-2a):** All TCLP metals except barium and mercury were detected in at least one of the solid/sludge waste investigative samples. A solid waste exhibits the characteristic of toxicity if the TCLP metals analysis exceeds the respective regulatory level. None of the samples exceeded the respective regulatory level; therefore, the solid/sludge waste samples do not meet the definition of hazardous waste for the characteristic of toxicity according to 40 CFR 261.24.
- **TCL VOCs (see Table 4-2b):** The VOCs 2-butanone (methyl ethyl ketone [MEK]) and acetone were detected in two solid/sludge waste samples as summarized below.
  - The samples from WS04 and WS05 contained 2-butanone (MEK) at concentrations ranging from 33,100 to 36,900 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ). The highest concentration of 2-butanone (MEK) was detected in solid/sludge waste sample from WS05.
  - The samples from WS04 and WS05 contained acetone at concentrations ranging from 32,100 to 33,700  $\mu\text{g}/\text{kg}$ . The highest concentration of acetone was detected in the solid/sludge waste sample from WS05.
- **TCL SVOCs (see Table 4-2c):** One SVOC, bis(2-ethylhexyl)phthalate, was detected in four of the eight solid/sludge waste samples as discussed below.
  - The samples from WS03 (including the duplicate), WS05, and WS06 contained bis(2-ethylhexyl)phthalate at concentrations ranging from 10,100 to 92,100  $\mu\text{g}/\text{kg}$ . The highest concentration of bis(2-ethylhexyl)phthalate was detected in the solid/sludge waste sample from WS05.
- **TAL Metals (see Table 4-2d):** Metals were detected at various concentrations in the solid waste samples. The highest detected metals concentrations detected were for chromium, iron, magnesium, and sodium as discussed below.
  - Chromium was detected in all eight investigative solid waste samples at concentrations ranging from 2.1 to 1,880 mg/kg. The highest concentration of chromium was detected in the solid waste sample from WS04.
  - Iron was detected in all eight of the investigative solid waste samples at concentrations ranging from 246 to 257,000 milligrams per kilogram (mg/kg). The highest concentration of iron was detected in the solid/sludge waste sample from WS04.
  - Magnesium was detected in all eight investigative solid/sludge waste samples at concentrations ranging from 21 to 5,330 mg/kg. The highest concentration of magnesium was detected in the duplicate solid/sludge waste sample from WS03.
  - Sodium was detected in all eight investigative solid/sludge waste samples at concentrations ranging from 8,000 to 198,000 mg/kg. The highest concentration of sodium was detected in the solid/sludge waste sample from WS07.

- **Corrosivity (see Table 4-2e):** The pH results for the investigative solid waste samples ranged from 9.96 to 12.99 SU. The solid/sludge waste sample from WS07 meets the definition of hazardous waste for the characteristic of corrosivity as defined in section 4.1 (40 CFR 261.22).
- **PCBs (see Table 4-2e):** PCBs were not detected in any of the investigative solid waste samples analyzed for PCBs.
- **Total Cyanide (see Table 4-2e):** Total cyanide concentrations in the solid waste samples ranged from not detected to 5.87 mg/kg. The highest concentration of cyanide was detected in the solid/sludge waste sample from WS08.

### 4.3 SOIL SAMPLE ANALYTICAL RESULTS

Tables 4-3a through 4-3e, respectively, summarize the soil sample analytical results for TCLP metals, TCL VOCs, TCL SVOCs, TAL metals, and general chemistry parameters (corrosivity, PCBs, and total cyanide). The samples from SS01 through SS03 were analyzed for TCLP metals, TCL VOCs, TCL SVOCs, TAL metals, total cyanide, corrosivity, and PCBs. Results are summarized below.

- **TCLP Metals (see Table 4-3a):** Most TCLP metals were not detected in the three samples. Only cadmium, chromium and selenium were detected but at concentrations below the regulatory level. A solid waste exhibits the characteristic of toxicity if TCLP analysis exceeds the respective regulatory level. None of the samples exceeded the regulatory level; therefore, the soil samples do not meet the definition of hazardous waste for the characteristic of toxicity according to 40 CFR 261.24.
- **TCL VOCs (see Table 4-3b):** The only VOC detected in the soil samples was acetone. No other VOCs were detected.
  - Acetone was detected in the soil sample from SS01 at a concentration of 181 µg/kg.
- **TCL SVOCs (see Table 4-3c):** The samples from SS01 and SS02 contained various SVOCs. The highest SVOC concentrations detected are discussed below.
  - The SVOCs benzo(a)anthracene, bis(s-ethylhexyl)phthalate, fluoranthene, and pyrene were detected at various concentrations in the soil samples collected from SS01 and SS02.
  - Benzo(a)pyrene was detected in soil samples collected from SS01 and SS02 at 793 and 822 µg/kg. The highest concentration of benzo(a)pyrene was detected in the soil sample from SS02, which exceeded the screening criterion of 800 µg/kg.
  - Benzyl butyl phthalate was detected only in the soil sample collected from SS02 at a concentration of 948 µg/kg.

- **TAL Metals (see Table 4-3d):** The samples from SS01, SS02, and SS03 contained metals at various concentrations. The highest metals concentrations detected were for calcium, chromium, iron, magnesium, manganese, and sodium as discussed below.
  - Calcium was detected in all three investigative soil samples at concentrations ranging from 15,600 to 81,800 mg/kg. The highest concentration of calcium was detected in the soil sample from SS03.
  - Chromium was detected in all three investigative soil samples at concentrations ranging from 17.4 to 2,200 mg/kg. The highest concentration of chromium was detected in the soil sample from SS03, which exceeded the screening criterion of 420 mg/kg.
  - Iron was detected all three investigative soil samples at concentrations ranging from 8,550 to 326,000 mg/kg. The highest concentration of iron was detected in the soil sample from SS03.
  - Magnesium was detected all three investigative soil samples at concentrations ranging from 3,480 to 47,400 mg/kg. The highest concentration of magnesium was detected in the soil sample from SS01.
  - Manganese was detected all three investigative soil samples at concentrations ranging from 304 to 2,250 mg/kg. The highest concentration of manganese was detected in the soil sample from SS03.
  - Sodium was detected all three investigative liquid waste samples at concentrations ranging from 619 to 23,100 mg/kg. The highest concentration of sodium was detected in the soil sample from SS03.
- **Corrosivity (see Table 4-3e):** The pH results for the investigative soil samples ranged from 8.56 to 11.9 SUs. None of the soil samples meets the definition of hazardous waste for the characteristic of corrosivity as defined in section 4.1 (40 CFR 261.22).
- **PCBs (see Table 4-3e):** PCBs were not detected in any of the investigative soil samples analyzed for PCBs.
- **Total Cyanide (see Table 4-3e):** The total cyanide results for the investigative soil samples ranged from 0.78 to 3.95 mg/kg. The highest concentration of total cyanide was detected in the soil sample from SS02.

#### 4.4 WIPE SAMPLE ANALYTICAL RESULTS

Table's 4-4a and 4-4b summarize the wipe sample analytical results for TAL metals and general chemistry parameters (total cyanide). Samples WP01 through WP03 were analyzed for TAL metals and total cyanide. Results are summarized below.

- **TAL Metals (see Table 4-4a):** The samples from WP01, WP02, and WP03 contained metals at various concentrations. The highest metals concentrations detected were for chromium, calcium, iron, potassium, and sodium as discussed below.
  - Chromium was detected in samples from WP01 (including the duplicate), WP02, and WP03 at concentrations ranging from 10.7 to 1,190 mg/wipe. The highest concentration of chromium was detected in the wipe sample from WP01.
  - Calcium was detected in samples from WP01 (including the duplicate), WP02, and WP03 at concentrations ranging from 2,410 to 71,800 milligrams per wipe (mg/wipe). The highest concentration of calcium was detected in the wipe sample from WP01.
  - Iron was detected in samples from WP01 (including the duplicate), WP02, and WP03 at concentrations ranging from 3,290 to 384,000 to 1,860 mg/wipe. The highest concentration of iron was detected in the wipe sample from WP01.
  - Potassium was detected in samples from WP01 (including the duplicate), WP02, and WP03 at concentrations ranging from 98 to 1,470 mg/wipe. The highest concentration of potassium was detected in the wipe sample from WP01.
  - Sodium was detected in samples from WP01 (including the duplicate), WP02, and WP03 at concentrations ranging from 2,920 to 10,200 mg/wipe. The highest concentration of chromium was detected in the wipe sample from WP01.
- **Total Cyanide (see Table 4-4b):** The total cyanide results for the wipe samples ranged from 5.34 to 71 mg/wipe. The highest concentration of total cyanide was detected in the duplicate wipe sample from WP01.

## 5. THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered in determining the appropriateness of a potential removal action at a Site are delineated in the NCP at 40 CFR 300.415(b)(2). A summary of the factors applicable to this Site are presented below.

- **Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants**

The Site is located in an industrial park area bordered by commercial trucking businesses to the east and south and industrial businesses to the north and west. Residences are located within 0.20 mile southwest and 0.20 mile north and northeast of the Site. Several schools and a hospital are located near the Site. The Des Plaines River is located 0.29 mile east of the Site. The Site is surrounded by an approximately 8-foot-high chain-link fence with a padlocked front gate. During the site assessment, not all doors were locked and several were open, which would allow unrestricted access to the building if the fence were compromised. An RV that appears to be occupied is located just outside and east of the building and south of the overhead door.

Corrosive materials were identified in open drums at the Site, including waste characterized as hazardous for corrosivity as defined in 40 CFR 261. These hazardous materials could be accessed by the onsite resident or by trespassers if they gain access to the building through open doors.

- **Hazardous substances, pollutants, or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release**

Corrosive materials were identified in open drums at the Site. The pH of several of the liquid waste samples (from WL03, WL03D, and WL04) was 14 SU. Liquid waste sample WL05 had a pH of 1. In addition, solid/sludge sample WS07 had a great than 12.5 SU. These samples meet the definition of hazardous waste for the characteristic of corrosivity according to 40 CFR 261.22. In addition, the building roof was leaking in several places. Because many of the drums and containers are open, materials could be released if precipitation leaking through the roof overfills the containers and the drums and they discharge to the gravel area, sump, or through doors in the building.

High concentrations of chromium were detected in the solid/sludge waste sample from WS04 and the soil sample from SS03. These sampling locations are near the north side of the building, and contamination could migrate out of the building during periods of precipitation. In addition, sludge waste from the deteriorated 1-yd<sup>3</sup> box could migrate out of the building and onto Site soil.

- **High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate**

A high concentration of chromium was detected in the soil sample from SS03. A high concentration of benzo(a)pyrene was detected in a soil sample from SS02. These sampling locations are outside the north and south sides of the building, and contamination could migrate offsite during periods of precipitation.

- **Weather conditions that may cause hazardous substances, pollutants, or contaminants to migrate or be released**

The Site contains approximately 200 open 55-gallon drums, 28 partially filled 5-gallon pails, 22 1-yd<sup>3</sup> sludge boxes, a sump, and an in-ground vat. Materials identified in drums at the Site were characterized as hazardous waste for corrosivity as defined in 40 CFR 261, and materials in the sludge boxes contained high levels of chromium. In addition, the building roof was leaking in several places. Because many of the drums and containers are open, materials could be released if precipitation leaking through the roof overfills the containers and the drums and they discharge to the gravel area, sump, or through doors in the building.

- **Threat of fire or explosion**

A live power cord was lying across pooled water on the floor of the building, and an on-site RV appeared to be receiving power from the building, likely through an improper connection. The building roof was leaking in several places and many of the ceiling fixtures were exposed. If an electrical fire were to start, hazardous contaminants and vapors could be released to the atmosphere or soil during a fire.

## 6. CONCLUSIONS

During the site assessment, a total of five liquid (plus a duplicate), eight solid/sludge (plus a duplicate), three soil, and three wipe (plus a duplicate) samples were collected from drums and containers at the Site. Analytical results indicate that two investigative liquid waste and one solid/sludge waste samples from WL03, WL04, and WS07 had pH values of more than 12.5 SUs. Analytical results also indicate that one investigative liquid waste sample from WL05 had a pH value of less than 2 SUs. In addition, analytical results indicate that soil samples from SS02 and SS03 contained high levels of chromium and benzo(a)pyrene. Based on the site assessment results, the Site poses an imminent and substantial threat to human health, human welfare, and the environment. Hazards identified at the Site include the following:

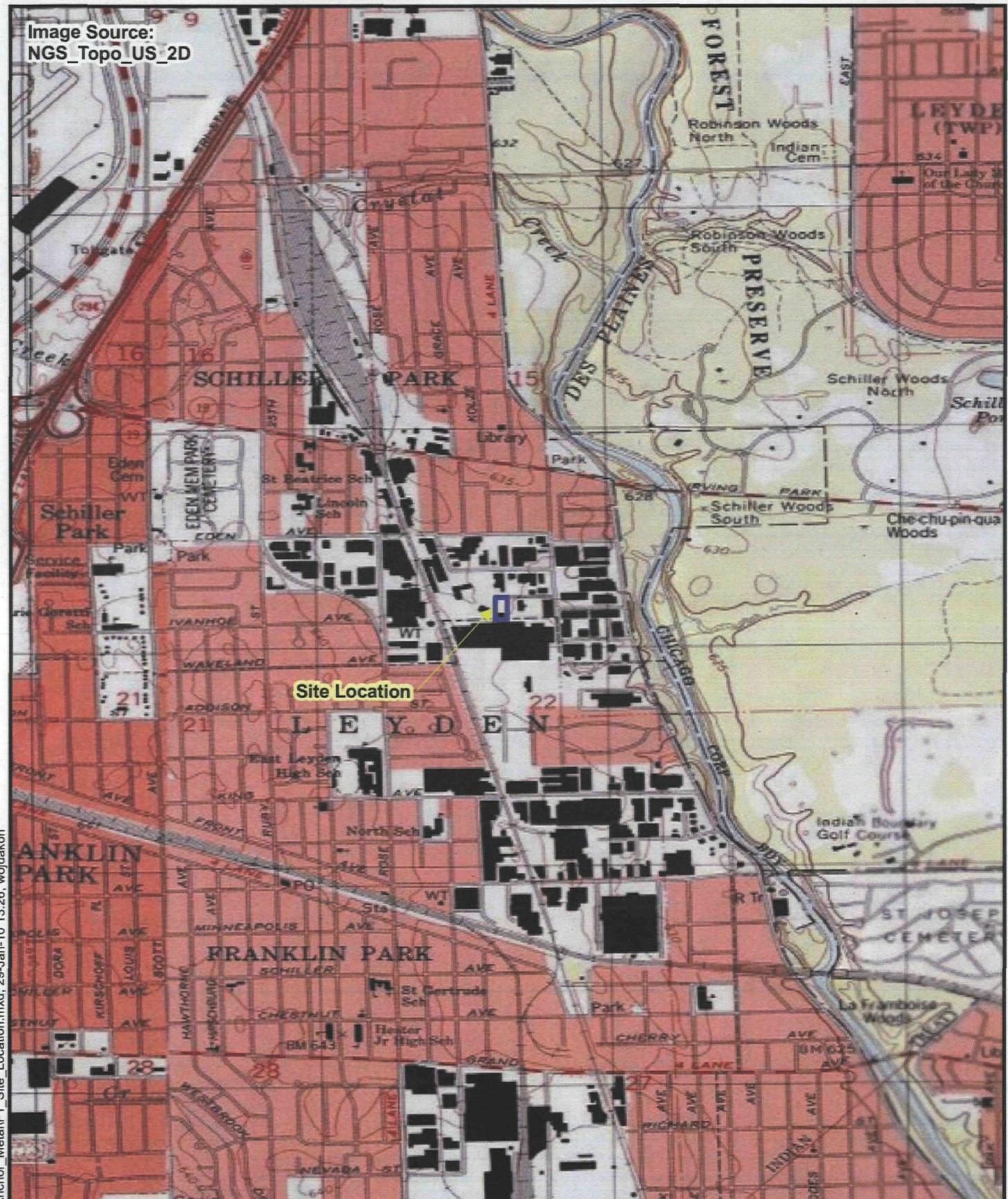
- Wastes exhibiting characteristics of corrosive materials; and
- Soils exhibiting high levels of chromium and benzo(a)pyrene.

Contaminants and conditions at the Site meet criteria established in the NCP for a removal action.

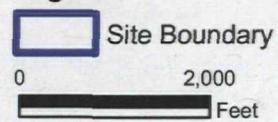
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## **FIGURES**

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#### Legend



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Contract No.: EP-S5-06-04  
TDD: S05-0001-0910-001  
DCN: 793-2A-AFUD

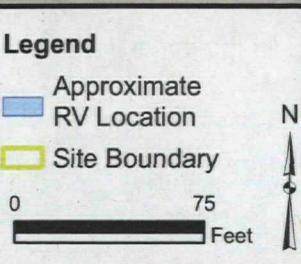


Prepared By:  
**WESTON  
SOLUTIONS, INC.**

750 E. Bunker Court  
Suite 500  
Vernon Hills, Illinois 60061

**Figure 1-1**  
Site Location Map  
Anchor Metal Finishing SA  
Schiller Park, Cook County, Illinois

Image Source:  
2008-07-01, DigitalGlobe



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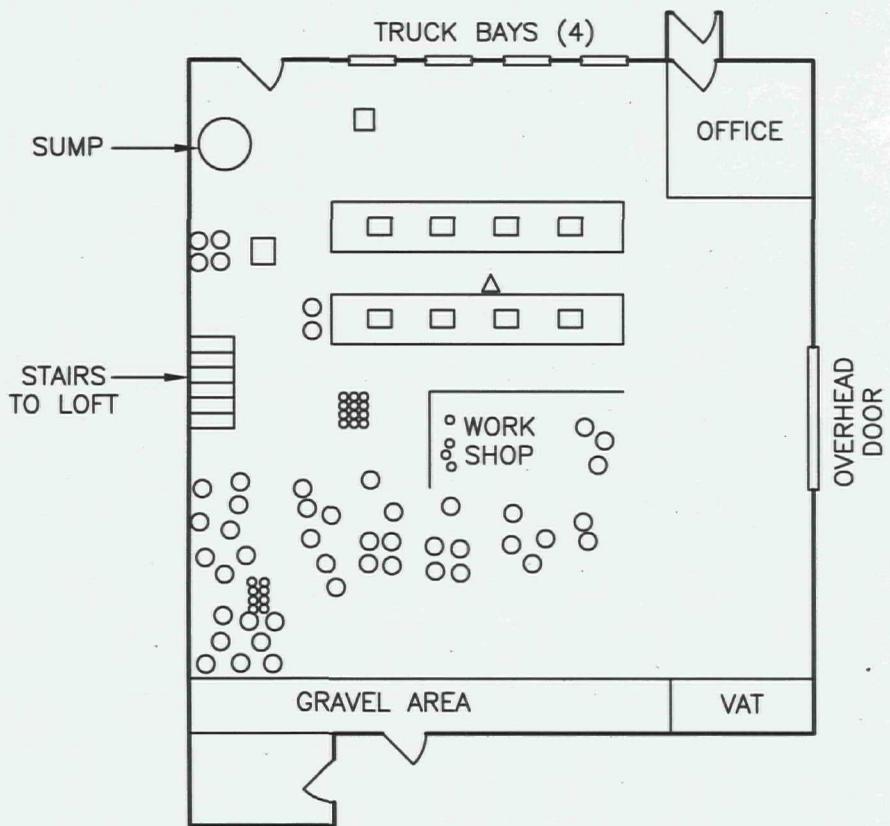


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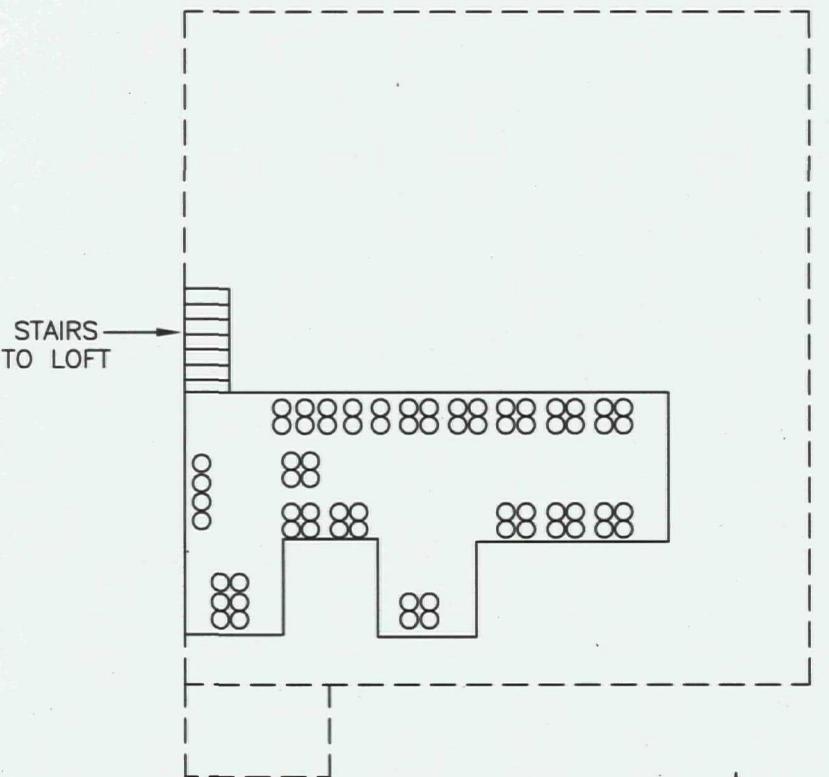
750 E. Bunker Court  
Suite 500  
Vernon Hills, Illinois 60061

**Figure 1-2**  
Site Features Map  
Anchor Metal Finishing SA  
Schiller Park, Cook County, Illinois

## GROUND FLOOR



## LOFT AREA



### LEGEND

- APPROXIMATE LOCATION OF 5-GALLON PAIL
- APPROXIMATE LOCATION OF 55-GALLON DRUM
- APPROXIMATE LOCATION OF 1 CUBIC-YARD BOX
- △ UNCONTAINED SLUDGE



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NOT TO SCALE

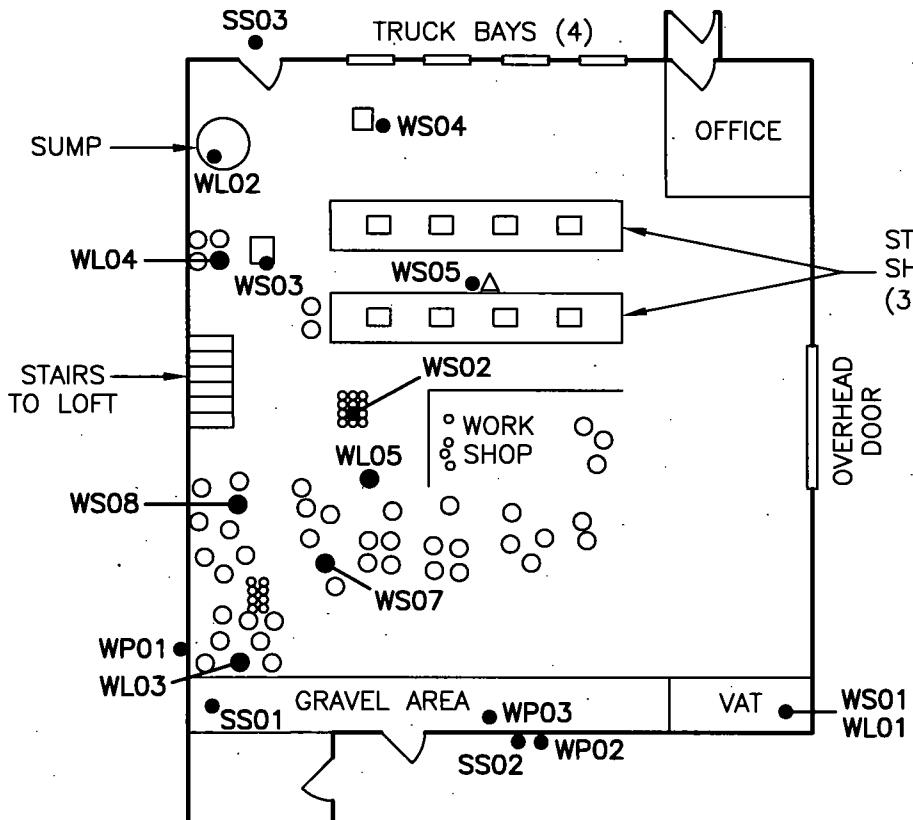
Figure 3-1

### Site Layout Map

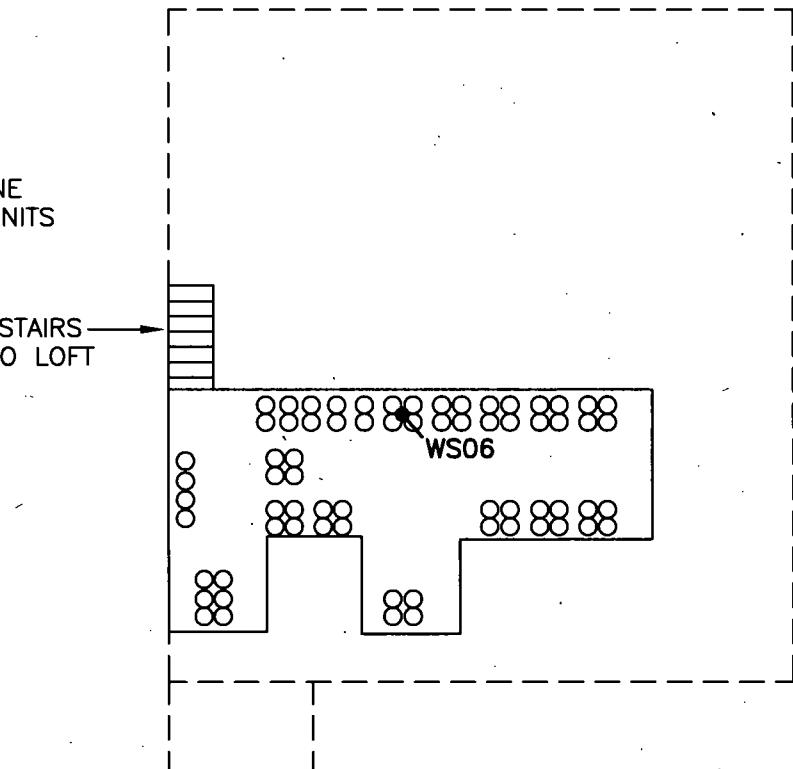
Anchor Metal Finishing SA

Schiller Park, Cook County, Illinois

## GROUND FLOOR



## LOFT AREA



### LEGEND

- APPROXIMATE LOCATION OF 5-GALLON PAIL
- APPROXIMATE LOCATION OF 55-GALLON DRUM
- APPROXIMATE LOCATION OF 1 CUBIC-YARD BOX
- △ UNCONTAINED SLUDGE
- SAMPLING LOCATION



Prepared for:  
U.S. EPA, REGION V  
Contract No: EP-S5-06-04  
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DCN: 793-2A-AFUD



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WESTON SOLUTIONS, INC.  
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Chicago, IL 60606



NOT TO SCALE

Figure 3-2

### Sampling Location Map

Anchor Metal Finishing SA

Schiller Park, Cook County, Illinois

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**TABLES**

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**Table 3-1**  
**Inventory of Containers and Potentially Hazardous Materials**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Area	Estimated Number of Containers	Size of Container (Gallons)	Type of Container	Contents/Description
Main Floor of Building	1	5,400	Concrete in-ground vat	Unknown contents; possible sludge and liquid waste
	1	Unknown	Sump	Unknown contents; water and possible contaminants from floor
	1	55	Steel drum	Closed; labeled "Pen Dip 300"
	8	55	Steel drums	Closed; possibly oil
	2	55	Polyethylene drums	Closed; labeled "Muriatic Acid"
	1	55	Steel drum	Open top; labeled "Hazardous Waste"
	18	5	Plastic pales	Open top; black cake-like sludge
	35	55	Steel drums	Open top; unknown contents; crystals forming around perimeter of open top
	66	55	Steel drums	Open top; partially filled with brown, cake-like sludge
	10	5	Plastic pales	Closed; unknown contents
	12	55	Polyethylene drums	Closed; unknown contents; high pH liquids
Loft Area	76	55	Steel drums	Open top; partially filled with brown, cake-like sludge
	4	55	Steel drums	Open top; unknown contents; crystals forming around perimeter of open top

**Table 3-2**  
**Sampling Summary**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Field Sample ID	Sampling Date	Sampling Time	Sample Type	Sampling Location	Sample Description	Sample Analyses	
<b>Liquid Waste Samples (All from Main Floor)</b>							
AM-WL01-101509	10/15/09	1038	Grab, Field Sample	Collected from the vat along the inside south wall of building	Brown liquid	TCL VOCs, TCL SVOCs, TAL metals, and general chemistry parameters (corrosivity, ignitability, PCBs, and total cyanide)	
AM-WL02-101509	10/15/09	1000	Grab, Field Sample	Collected from the sump in northwest corner of building	Muddy brown liquid		
AM-WL03-101509	10/15/09	1048	Grab, Field Sample	Collected from a 55-gallon drum on main floor	Red liquid		
AM-WL03-101509D	10/15/09	1048	Grab, Field Duplicate	Field duplicate of AM-WL03-101509			
AM-WL04-101509	10/15/09	1120	Grab, Field Sample	Collected from a 55-gallon drum labeled "Muriatic Acid" on main floor	Cloudy Liquid		
AM-WL05-101509	10/15/09	1140	Grab, Field Sample	Collected from a 55-gallon drum labeled "Muriatic Acid" on main floor	Light green		
<b>Solid Waste Samples (All Except AM-WS06-101509 from Main Floor)</b>							
AM-WS01-101509	10/15/09	1315	Grab, Field Sample	Collected from the vat along the inside south wall of building	Brown solid sludge	TCL VOCs, TCL SVOCs, TAL metals, TCLP metals, and general chemistry parameters (corrosivity, PCBs, and total cyanide)	
AM-WS02-101509	10/15/09	1320	Composite, Field	Collected from 5-gallon pails from a pallet of 12 near the loft stairway	Black cake-like sludge		
AM-WS03-101509	10/15/09	1325	Grab, Field Sample	Collected from a 1-yd <sup>3</sup> sludge box near the loft stairway	Black cake-like sludge		
AM-WS03-101509D	10/15/09	1325	Grab, Field Duplicate	Field duplicate of AM-WS03-101509			
AM-WS04-101509	10/15/09	1330	Grab, Field Sample	Collected from a 1-yd <sup>3</sup> sludge box near the westernmost truck bay on the north side of the building	Black cake-like sludge		
AM-WS05-101509	10/15/09	1340	Grab, Field Sample	Collected from a pile of uncontained sludge between the two shelving units	Brown wet sludge		
AM-WS06-101509	10/15/09	1350	Grab, Field Sample	Collected from four 55-gallon drums in loft area	Brown cake-like sludge		
AM-WS07-101509	10/15/09	1400	Grab, Field Sample	Collected from a 55-gallon drum on west side of main floor	Yellow submerged sheeted crystalline		
AM-WS08-101509	10/15/09	1355	Grab, Field Sample	Collected from a 55-gallon drum labeled "Hazardous Waste" on west side of main floor	Dark-brown sludge-like material		
<b>Soil Samples</b>							
AM-SS01-101509	10/15/09	1410	Grab, Field Sample	Collected from exposed soil in southwest corner of the building	Dark brown to black	TCL VOCs, TCL SVOCs, TAL metals, TCLP metals, and general chemistry parameters (corrosivity, PCBs, and total cyanide)	
AM-SS02-101509	10/15/09	1420	Grab, Field Sample	Collected outside from the south side of the building below the stain on the wall	Dark brown to black		
AM-SS03-101509	10/15/09	1430	Grab, Field Sample	Collected just outside the westernmost service door on the north side of the building	Red in appearance with a thick clay like texture		
<b>Wipe Samples</b>							
AM-WP01-101509	10/15/09	1435	Grab, Field Sample	Collected on the west wall just north of the gravel area	Black stain on gauze	TAL metals and general chemistry parameter (total cyanide)	
AM-WP01-101509D	10/15/09	1435	Grab, Field Duplicate	Field duplicate of WM-WS09-062509			
AM-WP02-101509	10/15/09	1440	Grab, Field Sample	Collected from a stain on the southern outside exterior wall	Brown to red stain on gauze		
AM-WP03-101509	10/15/09	1445	Grab, Field Sample	Collected from the southern interior wall just east of the doorway	Black stain on gauze		

Notes:

ID = Identification

PCB = Polychlorinated biphenyl

SVOC = Semivolatile organic compound

TAL = Target Analyte List

TCL = Target Compound List

TCLP = Toxicity characteristic leaching procedure

VOC = Volatile organic compound

yd<sup>3</sup> = Cubic yard

**Table 4-1a**  
**Liquid Waste Sample Analytical Results for TCL VOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	<b>Location ID</b>	<b>WL01</b>	<b>WL02</b>	<b>WL03</b>	<b>WL03</b>	<b>WL04</b>	<b>WL05</b>	
	<b>Matrix</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	
	<b>Field Sample ID</b>	<b>AM-WL01-101509</b>	<b>AM-WL02-101509</b>	<b>AM-WL03-101509</b>	<b>AM-WL03-101509D</b>	<b>AM-WL04-101509</b>	<b>AM-WL05-101509</b>	
	<b>Sampling Date</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	
<b>TCL VOCs</b>		<b>Units</b>						
1,1-Dichloroethylene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
1,2-Dichloroethane	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
1,2-Dichloropropane	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
2-Butanone (MEK)	µg/kg	100 U	100 U	100 U	100 U	100 U	NA	
4-Methyl-2-Pentanone (MIBK)	µg/kg	10 U	10 U	10 U	10 U	10 U	NA	
Acetone	µg/kg	100 U	100 U	100 U	100 U	162	NA	
Benzene	µg/kg	5 U	11.7	5 U	5 U	5 U	NA	
Bromodichloromethane	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Bromomethane	µg/kg	10 U	10 U	10 U	10 U	10 U	NA	
Carbon Disulfide	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Carbon Tetrachloride	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Chlorobenzene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Chlorodibromomethane	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Chloroethane	µg/kg	10 U	10 U	10 U	10 U	10 U	NA	
Chloroform	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Chloromethane	µg/kg	10 U	10 U	10 U	10 U	10 U	NA	
Cis-1,2-Dichloroethene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Cis-1,3-Dichloropropene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Dichloromethane	µg/kg	20 U	20 U	20 U	20 U	20 U	NA	
Ethylbenzene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Methyl N-Butyl Ketone	µg/kg	10 U	10 U	10 U	10 U	10 U	NA	
Methylbenzene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Methyl-Tert-Butylether (MTBE)	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Styrene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Tetrachloroethene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Trans-1,2-Dichloroethene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Trans-1,3-Dichloropropene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	
Tribromomethane	µg/kg	5 U	5 U	5 U	5 U	5 U	NA	

**Table 4-1a**  
**Liquid Waste Sample Analytical Results for TCL VOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	<b>Location ID</b>	<b>WL01</b>	<b>WL02</b>	<b>WL03</b>	<b>WL03</b>	<b>WL04</b>	<b>WL05</b>
	<b>Matrix</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>
	<b>Field Sample ID</b>	<b>AM-WL01- 101509</b>	<b>AM-WL02- 101509</b>	<b>AM-WL03- 101509</b>	<b>AM-WL03- 101509D</b>	<b>AM-WL04- 101509</b>	<b>AM-WL05- 101509</b>
	<b>Sampling Date</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>
Trichloroethylene	µg/kg	5 U	5 U	5 U	5 U	5 U	NA
Vinyl Acetate	µg/kg	10 U	10 U	10 U	10 U	10 U	NA
Vinyl Chloride	µg/kg	10 U	10 U	10 U	10 U	10 U	NA
Xylene, Total	µg/kg	5 U	5 U	5 U	5 U	5 U	NA

Notes:

µg/kg = Microgram per kilogram

ID = Identification

NA = Not analyzed

TCL = Target Compound List

U = Not detected; the associated numerical value is the reporting limit

VOC = Volatile organic compound

**Table 4-1b**  
**Liquid Waste Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	<b>Location ID</b>	<b>WL01</b>	<b>WL02</b>	<b>WL03</b>	<b>WL03</b>	<b>WL04</b>	<b>WL05</b>
	<b>Matrix</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>
	<b>Field Sample ID</b>	<b>AM-WL01-101509</b>	<b>AM-WL02-101509</b>	<b>AM-WL03-101509</b>	<b>AM-WL03-101509D</b>	<b>AM-WL04-101509</b>	<b>AM-WL05-101509</b>
	<b>Sampling Date</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>
<b>TCL SVOCs</b>		<b>Units</b>					
1,2,4-Trichlorobenzene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
1,2-Benzphenanthracene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
1,2-Dichlorobenzene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
1,4-Dichlorobenzene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2,4,5-Trichlorophenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2,4,6-Trichlorophenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2,4-Dichlorophenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2,4-Dimethylphenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2,4-Dinitrophenol	µg/kg	1600 U	1600 U	1600 U	1600 U	1600 U	NA
2,4-Dinitrotoluene	µg/kg	250 U	250 U	250 U	250 U	250 U	NA
2,6-Dinitrotoluene	µg/kg	260 U	260 U	260 U	260 U	260 U	NA
2-Chloronaphthalene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2-Chlorophenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2-Methylnaphthalene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2-Methylphenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
2-Nitroaniline	µg/kg	1600 U	1600 U	1600 U	1600 U	1600 U	NA
2-Nitrophenol	µg/kg	1600 U	1600 U	1600 U	1600 U	1600 U	NA
3&4-Methylphenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
3,3'-Dichlorobenzidine	µg/kg	660 U	660 U	660 U	660 U	660 U	NA
3,5,5-Trimethyl-2-Cyclohexene-1-One	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
3-Nitroaniline	µg/kg	1600 U	1600 U	1600 U	1600 U	1600 U	NA
4,6-Dinitro-2-Methylphenol	µg/kg	1600 U	1600 U	1600 U	1600 U	1600 U	NA
4-Bromophenyl Phenyl Ether	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
4-Chloro-3-Methylphenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
4-Chlorophenyl Phenyl Ether	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
4-Nitrophenol	µg/kg	1600 U	1600 U	1600 U	1600 U	1600 U	NA
Acenaphthene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Acenaphthylene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA

**Table 4-1b**  
**Liquid Waste Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	<b>Location ID</b>	<b>WL01</b>	<b>WL02</b>	<b>WL03</b>	<b>WL03</b>	<b>WL04</b>	<b>WL05</b>
	<b>Matrix</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>
	<b>Field Sample ID</b>	<b>AM-WL01-101509</b>	<b>AM-WL02-101509</b>	<b>AM-WL03-101509</b>	<b>AM-WL03-101509D</b>	<b>AM-WL04-101509</b>	<b>AM-WL05-101509</b>
	<b>Sampling Date</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>
<b>TCL SVOCs</b>	<b>Units</b>						
Anthracene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzidine	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzo(a)anthracene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzo(a)pyrene	µg/kg	90 U	313	90 U	90 U	90 U	NA
Benzo(b)fluoranthene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzo(g,h,i)perylene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzo(k)fluoranthene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzoic Acid	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzyl Alcohol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Benzyl Butyl Phthalate	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Bis(2-Chloroethoxy)Methane	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Bis(2-Chloroethyl)Ether	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Bis(2-Chloroisopropyl)Ether	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Bis(2-Ethylhexyl)Phthalate	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Carbazole	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Dibenzo(a,h)anthracene	µg/kg	90 U	90 U	90 U	90 U	90 U	NA
Dibenzofuran	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Diethyl Phthalate	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Dimethyl Phthalate	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Di-N-Butylphthalate	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Di-N-Octylphthalate	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Fluoranthene	µg/kg	330 U	703	330 U	330 U	330 U	NA
Fluorene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Hexachloro-1,3-Butadiene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Hexachlorobenzene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Hexachlorocyclopentadiene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Hexachloroethane	µg/kg	330 U	330 U	330 U	330 U	330 U	NA
Indeno(1,2,3-cd)pyrene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA

**Table 4-1b**  
**Liquid Waste Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	<b>Location ID</b>	<b>WL01</b>	<b>WL02</b>	<b>WL03</b>	<b>WL03</b>	<b>WL04</b>	<b>WL05</b>	
	<b>Matrix</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	<b>Liquid Waste</b>	
	<b>Field Sample ID</b>	<b>AM-WL01-101509</b>	<b>AM-WL02-101509</b>	<b>AM-WL03-101509</b>	<b>AM-WL03-101509D</b>	<b>AM-WL04-101509</b>	<b>AM-WL05-101509</b>	
	<b>Sampling Date</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	
<b>TCL SVOCs</b>		<b>Units</b>						
M-Dichlorobenzene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
Methanamine, N-Methyl-N-Nitroso	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
Naphthalene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
Nitrobenzene	µg/kg	260 U	260 U	260 U	260 U	260 U	NA	
N-Nitrosodi-N-Propylamine	µg/kg	90 U	90 U	90 U	90 U	90 U	NA	
N-Nitrosodiphenylamine	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
P-Chloroaniline	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
Pentachlorophenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
Phenanthrene	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
Phenol	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	
P-Nitroaniline	µg/kg	1600 U	1600 U	1600 U	1600 U	1600 U	NA	
Pyrene	µg/kg	330 U	514	330 U	330 U	330 U	NA	
Pyridine	µg/kg	330 U	330 U	330 U	330 U	330 U	NA	

Notes:

µg/kg = Microgram per kilogram

ID = Identification

NA = Not analyzed

SVOC = Semivolatile organic compound

TCL = Target Compound List

U = Not detected; the associated numerical value is the reporting limit

**Table 4-1c**  
**Liquid Waste Sample Analytical Results for TAL Metals**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WL01	WL02	WL03	WL03	WL04	WL05
Matrix	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste
Field Sample ID	AM-WL01-101509	AM-WL02-101509	AM-WL03-101509	AM-WL03-101509D	AM-WL04-101509	AM-WL05-101509
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
<b>TAL Metals</b>						
Aluminum	mg/kg	15.1	40.8	9.3	12.2	5 U
Antimony	mg/kg	1 U	1 U	1 U	1 U	NA
Arsenic	mg/kg	0.2 U	0.2 U	8.9	10	0.4
Barium	mg/kg	0.2	4.4	0.3	0.4	0.1 U
Beryllium	mg/kg	0.1 U	0.1 U	0.1 U	0.1 U	NA
Cadmium	mg/kg	0.1 U	0.1 U	0.1 U	0.1 U	NA
Calcium Metal	mg/kg	204	348	13	23	10 U
Chromium	mg/kg	0.4	1.6	1.2	1.6	0.1 U
Cobalt	mg/kg	0.1 U	0.1 U	0.2	0.2	0.1 U
Copper	mg/kg	0.3	0.9	3.1	3.5	0.2
Iron	mg/kg	185	399	100	141	8.1
Lead	mg/kg	0.2 U	0.8	0.4	0.5	0.2 U
Magnesium	mg/kg	63	203	10 U	10 U	10 U
Manganese	mg/kg	1.4	2.7	1.3	1.7	0.1 U
Nickel	mg/kg	0.3	0.3	0.7	0.9	0.3
Potassium	mg/kg	23	39	1630	1860	164
Selenium	mg/kg	0.2 U	0.2 U	1.7	1.9	0.2 U
Silver	mg/kg	0.1 U	0.1 U	0.1 U	0.1 U	NA
Sodium	mg/kg	471	202	106000	103000	16000
Thallium	mg/kg	1 U	1 U	1 U	1 U	NA
Vanadium	mg/kg	1 U	1 U	4	4.4	1 U
Zinc	mg/kg	36.7	5.4	816	1010	1.8
Mercury	mg/kg	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

Notes:

ID = Identification

mg/kg = Milligram per kilogram

NA = Not analyzed

TAL = Target Analyte List

U = Not detected; the associated numerical value is the reporting limit

**Table 4-1d**  
**Liquid Waste Sample Analytical Results for General Chemistry Parameters**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	Location ID	WL01	WL02	WL03	WL03	WL04	WL05
	Matrix	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste
	Field Sample ID	AM-WL01-101509	AM-WL02-101509	AM-WL03-101509	AM-WL03-101509D	AM-WL04-101509	AM-WL05-101509
	Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
<b>Parameter</b>	<b>Unit</b>						
Flashpoint-Closed Cup	°F	NA	NA	No flash at 212 °F	No flash at 212 °F	NA	NA
Cyanide	mg/kg	0.31	0.1 U	3.4	3.51	0.18	NA
pH	SU	9	6	14	14	14	1
<b>PCBs</b>							
Aroclor-1016	µg/kg	500 U	500 U	500 U	500 U	500 U	NA
Aroclor-1221	µg/kg	500 U	500 U	500 U	500 U	500 U	NA
Aroclor-1232	µg/kg	500 U	500 U	500 U	500 U	500 U	NA
Aroclor-1242	µg/kg	500 U	500 U	500 U	500 U	500 U	NA
Aroclor-1248	µg/kg	500 U	500 U	500 U	500 U	500 U	NA
Aroclor-1254	µg/kg	500 U	500 U	500 U	500 U	500 U	NA
Aroclor-1260	µg/kg	500 U	500 U	500 U	500 U	500 U	NA

Notes:

Highlighted results exceed applicable criteria.

µg/L = Microgram per kilogram

°F = Degree Fahrenheit

ID = Identification

mg/L = Milligram per kilogram

NA = Not analyzed

PCB = Polychlorinated biphenyl

SU = Standard unit

U = Not detected; the associated numerical value is the reporting limit

**Table 4-2a**  
**Solid/Sludge Waste Sample Analytical Results for TCLP Metals**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	Location ID	WS01	WS02	WS03	WS03	WS04
	Matrix	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge
	Field Sample ID	AM-WS01-101509	AM-WS02-101509	AM-WS03-101509	AM-WS03-101509D	AM-WS04-101509
	Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
<b>TCLP Metals</b>	<b>Unit</b>					
Arsenic	mg/L	0.002 U	0.002 U	0.002 U	0.008	0.002 U
Barium	mg/L	1 U	1 U	1 U	1 U	1 U
Cadmium	mg/L	0.002	0.002	0.017	0.001 U	0.003
Chromium	mg/L	0.003	0.02	0.002	0.004	0.041
Lead	mg/L	0.002 U	0.005	0.002 U	0.021	0.005
Mercury	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Selenium	mg/L	0.002 U	0.002 U	0.016	0.002 U	0.002 U
Silver	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.002

	Location ID	WS05	WS06	WS07	WS08
	Matrix	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge
	Field Sample ID	AM-WS05-101509	AM-WS06-101509	AM-WS07-101509	AM-WS08-101509
	Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009
<b>TCLP Metals</b>	<b>Unit</b>				
Arsenic	mg/L	0.002 U	0.002 U	0.02	NA
Barium	mg/L	1 U	1 U	1 U	NA
Cadmium	mg/L	0.001 U	0.007	0.001 U	NA
Chromium	mg/L	0.001 U	0.003	0.002	NA
Lead	mg/L	0.002 U	0.002 U	0.002 U	NA
Mercury	mg/L	0.0005 U	0.0005 U	0.0005 U	NA
Selenium	mg/L	0.002 U	0.002 U	0.002 U	NA
Silver	mg/L	0.001 U	0.001 U	0.001 U	NA

Notes:

ID = Identification

mg/L = Milligram per liter

NA = Not analyzed

TCLP = Toxicity Characteristic Leaching Procedure

U = Not detected; the associated numerical value is the reporting limit

**Table 4-2b**  
**Solid/Sludge Waste Sample Analytical Results for TCL VOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WS01	WS02	WS03	WS03	WS04	WS05	WS06	WS07	WS08
Matrix	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge
Field Sample ID	AM-WS01- 101509	AM-WS02- 101509	AM-WS03- 101509	AM-WS03- 101509D	AM-WS04- 101509	AM-WS05- 101509	AM-WS06- 101509	AM-WS07- 101509	AM-WS08- 101509
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
<b>TCL VOCs</b>	<b>Unit</b>								
1,1,1-Trichloroethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
1,1,2,2-Tetrachloroethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
1,1,2-Trichloroethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
1,1-Dichloroethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
1,1-Dichloroethylene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
1,2-Dichloroethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
1,2-Dichloropropane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
2-Butanone (MEK)	µg/kg	100000 U	100000 U	10000 U	100 U	33100	36900	10000 U	NA
4-Methyl-2-Pantanone (MIBK)	µg/kg	10000 U	10000 U	1000 U	10 U	1000 U	1000 U	1000 U	10 U
Acetone	µg/kg	100000 U	100000 U	10000 U	100 U	32100	33700	10000 U	NA
Benzene	µg/kg	5000 U	5000 U	25 U	5 U	25 U	25 U	25 U	5 U
Bromodichloromethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Bromomethane	µg/kg	10000 U	10000 U	1000 U	10 U	1000 U	1000 U	1000 U	10 U
Carbon Disulfide	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Carbon Tetrachloride	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Chlorobenzene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Chlorodibromomethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Chloroethane	µg/kg	10000 U	10000 U	1000 U	10 U	1000 U	1000 U	1000 U	10 U
Chloroform	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Chloromethane	µg/kg	10000 U	10000 U	1000 U	10 U	1000 U	1000 U	1000 U	10 U
Cis-1,2-Dichloroethene	µg/kg	5000 U	5000 U	400 U	5 U	400 U	400 U	400 U	5 U
Cis-1,3-Dichloropropene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Dichloromethane	µg/kg	20000 U	20000 U	2000 U	20 U	2000 U	2000 U	2000 U	20 U
Ethylbenzene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Methyl N-Butyl Ketone	µg/kg	10000 U	10000 U	1000 U	10 U	1000 U	1000 U	1000 U	10 U
Methylbenzene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	500 U	5 U
Methyl-Tert-Butylether (MTBE)	µg/kg	5000 U	5000 U	320 U	5 U	320 U	320 U	320 U	5 U

**Table 4-2b**  
**Solid/Sludge Waste Sample Analytical Results for TCL VOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WS01	WS02	WS03	WS03	WS04	WS05	WS06	WS07	WS08
Matrix	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge	Solid/ Sludge
Field Sample ID	AM-WS01- 101509	AM-WS02- 101509	AM-WS03- 101509	AM-WS03- 101509D	AM-WS04- 101509	AM-WS05- 101509	AM-WS06- 101509	AM-WS07- 101509	AM-WS08- 101509
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
TCL VOCs	Unit								
Styrene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	NA	5 U
Tetrachloroethene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	NA	5 U
Trans-1,2-Dichloroethene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	NA	5 U
Trans-1,3-Dichloropropene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	NA	5 U
Tribromomethane	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	NA	5 U
Trichloroethylene	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	NA	5 U
Vinyl Acetate	µg/kg	10000 U	10000 U	1000 U	10 U	1000 U	1000 U	NA	10 U
Vinyl Chloride	µg/kg	10000 U	10000 U	1000 U	10 U	1000 U	1000 U	NA	10 U
Xylene, Total	µg/kg	5000 U	5000 U	500 U	5 U	500 U	500 U	NA	5 U

Notes:

µg/kg = Microgram per kilogram

ID = Identification

NA = Not analyzed

TCL = Target Compound List

U = Not detected; the associated numerical value is the reporting limit

VOC = Volatile organic compound

**Table 4-2c**  
**Solid/Sludge Waste Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WS01	WS02	WS03	WS03	WS04	WS05	WS06	WS07	WS08
Matrix	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge
Field Sample ID	AM-WS01-101509	AM-WS02-101509	AM-WS03-101509	AM-WS03-101509D	AM-WS04-101509	AM-WS05-101509	AM-WS06-101509	AM-WS07-101509	AM-WS08-101509
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
TCL SVOCs	Unit								
1,2,4-Trichlorobenzene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
1,2-Benzphenanthracene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
1,2-Dichlorobenzene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
1,4-Dichlorobenzene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2,4,5-Trichlorophenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2,4,6-Trichlorophenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2,4-Dichlorophenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2,4-Dimethylphenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2,4-Dinitrophenol	µg/kg	365,000 U	630,000 U	130,000 U	160,000 U	765,000 U	130,000 U	14,500 U	NA
2,4-Dinitrotoluene	µg/kg	55,000 U	95,000 U	19,700 U	24,000 U	116,000 U	19,700 U	2,200 U	NA
2,6-Dinitrotoluene	µg/kg	58,000 U	99,000 U	20,500 U	25,000 U	120,000 U	20,500 U	2,280 U	NA
2-Chloronaphthalene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2-Chlorophenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2-Methylnaphthalene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2-Methylphenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
2-Nitroaniline	µg/kg	365,000 U	630,000 U	130,000 U	160,000 U	765,000 U	130,000 U	14,500 U	NA
2-Nitrophenol	µg/kg	365,000 U	630,000 U	130,000 U	160,000 U	765,000 U	130,000 U	14,500 U	NA
3&4-Methylphenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
3,3'-Dichlorobenzidine	µg/kg	146,000 U	252,000 U	52,000 U	64,000 U	306,000 U	52,000 U	5,800 U	NA
3,5,5-Trimethyl-2-Cyclohexene-1-One	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
3-Nitroaniline	µg/kg	365,000 U	630,000 U	130,000 U	160,000 U	765,000 U	130,000 U	14,500 U	NA
4,6-Dinitro-2-Methylphenol	µg/kg	365,000 U	630,000 U	130,000 U	160,000 U	765,000 U	130,000 U	14,500 U	NA
4-Bromophenyl Phenyl Ether	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
4-Chloro-3-Methylphenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
4-Chlorophenyl Phenyl Ether	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
4-Nitrophenol	µg/kg	365,000 U	630,000 U	130,000 U	160,000 U	765,000 U	130,000 U	14,500 U	NA
Acenaphthene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Acenaphthylene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Anthracene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Benzidine	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Benzo(a)anthracene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Benzo(a)pyrene	µg/kg	20,000 U	34,000 U	7,100 U	8,700 U	41,700 U	7,100 U	790 U	NA
Benzo(b)fluoranthene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Benzo(g,h,i)perylene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Benzo(k)fluoranthene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Benzoic Acid	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Benzyl Alcohol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA

**Table 4-2c**  
**Solid/Sludge Waste Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WS01	WS02	WS03	WS03	WS04	WS05	WS06	WS07	WS08
Matrix	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge
Field Sample ID	AM-WS01-101509	AM-WS02-101509	AM-WS03-101509	AM-WS03-101509D	AM-WS04-101509	AM-WS05-101509	AM-WS06-101509	AM-WS07-101509	AM-WS08-101509
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
TCL SVOCs	Unit								
Benzyl Butyl Phthalate	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Bis(2-Chloroethoxy)Methane	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Bis(2-Chloroethyl)Ether	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Bis(2-Chloroisopropyl)Ether	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Bis(2-Ethylhexyl)Phthalate	µg/kg	73,000 U	126,000 U	31800	70800	153,000 U	92100	10100	NA
Carbazole	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Dibenzo(a,h)anthracene	µg/kg	20,000 U	34,000 U	7,100 U	8,700 U	41,700 U	7,100 U	790 U	NA
Dibenzofuran	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Diethyl Phthalate	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Dimethyl Phthalate	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Di-N-Butylphthalate	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Di-N-Octylphthalate	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Fluoranthene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Fluorene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Hexachloro-1,3-Butadiene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Hexachlorobenzene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Hexachlorocyclopentadiene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Hexachloroethane	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Indeno(1,2,3-cd)pyrene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
M-Dichlorobenzene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Methanamine, N-Methyl-N-Nitroso	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Naphthalene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Nitrobenzene	µg/kg	58,000 U	99,000 U	20,500 U	25,000 U	120,000 U	20,500 U	2,280 U	NA
N-Nitrosodi-N-Propylamine	µg/kg	20,000 U	34,000 U	7,100 U	25,000 U	41,700 U	7,100 U	2,900 U	NA
N-Nitrosodiphenylamine	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
P-Chloroaniline	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Pentachlorophenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Phenanthrene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Phenol	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
P-Nitroaniline	µg/kg	365,000 U	630,000 U	130,000 U	160,000 U	765,000 U	130,000 U	14,500 U	NA
Pyrene	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
Pyridine	µg/kg	73,000 U	126,000 U	26,000 U	32,000 U	153,000 U	26,000 U	2,900 U	NA
									330 U

Notes:

µg/kg = Microgram per kilogram

ID = Identification

NA = Not analyzed

SVOC = Semivolatile organic compound

TCL = Target Compound List

U = Not detected; the associated numerical value is the reporting limit

**Table 4-2d**  
**Solid/Sludge Waste Sample Analytical Results for TAL Metals**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WS01	WS02	WS03	WS03	WS04	WS05	WS06	WS07	WS08	
Matrix	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	
Field Sample ID	AM-WS01-101509	AM-WS02-101509	AM-WS03-101509	AM-WS03-101509D	AM-WS04-101509	AM-WS05-101509	AM-WS06-101509	AM-WS07-101509	AM-WS08-101509	
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	
<b>TAL Metals</b>										
Aluminum	mg/kg	422	694	892	939	770	749	236	37.4	5.2
Antimony	mg/kg	13.1	15.4	10.6	13.3	27.3	15.6	17.8	1 U	1 U
Arsenic	mg/kg	1.9	4.3	8.6	6.1	1.3	8.4	6.8	2.1	0.2 U
Barium	mg/kg	146	276	381	268	186	201	174	0.3	0.3
Beryllium	mg/kg	0.1	0.1	0.1	0.2	0.1	0.1	0.1 U	0.1 U	0.1 U
Cadmium	mg/kg	3.9	4.9	6.2	5.7	13.1	5.5	3.2	0.1 U	0.1 U
Calcium Metal	mg/kg	10500	16700	13100	17200	12100	14700	4010	167	107
Chromium	mg/kg	864	991	1240	988	1880	919	1510	7.3	2.1
Cobalt	mg/kg	5.9	6.6	9.1	7.8	7.4	8.4	5.8	0.4	0.1 U
Copper	mg/kg	121	241	400	309	263	251	175	4	0.9
Iron	mg/kg	160000	176000	231000	233000	257000	212000	208000	447	246
Lead	mg/kg	78.6	101	134	137	158	111	95	6.5	0.3
Magnesium	mg/kg	2030	2910	4150	5330	2780	4890	1860	21	23
Manganese	mg/kg	1210	1340	1550	1510	1750	1810	1180	3.5	2.2
Mercury	mg/kg	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Nickel	mg/kg	410	455	368	426	715	472	713	1.2	1.8
Potassium	mg/kg	316	576	490	557	593	868	325	1050	581
Selenium	mg/kg	3.8	4.9	9.6	7.5	9.9	15.2	9.6	0.2 U	0.2 U
Silver	mg/kg	0.5	0.7	0.8	0.9	0.9	0.8	0.5	0.1 U	0.1 U
Sodium	mg/kg	8000	19000	49000	58000	28000	18000	18000	198000	56700
Thallium	mg/kg	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vanadium	mg/kg	9.8	11.4	15.8	13.4	11.6	15.4	15.5	1.7	1 U
Zinc	mg/kg	2000	2000	4000	4000	5000	700	700	89.3	18.3

Notes:

ID = Identification

mg/kg= Milligram per kilogram

TAL = Target Analyte List

U = Not detected, the associated numerical value is the reporting limit

**Table 4-2e**  
**Solid/Sludge Waste Sample Analytical Results for General Chemistry Parameters**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WS01	WS02	WS03	WS04	WS05	WS06	WS07	WS08	
Matrix	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	Solid/Sludge	
Field Sample ID	AM-WS01-101509	AM-WS02-101509	AM-WS03-101509	AM-WS03-101509D	AM-WS04-101509	AM-WS05-101509	AM-WS06-101509	AM-WS07-101509	AM-WS08-101509
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
Parameter	Unit								
Cyanide	mg/kg	0.78	1.08	0.82	1.15	0.82	0.9	0.65	0.1 U
pH	SU	10.97	10.53	10.52	10.26	10.75	10.1	9.96	12.99
<b>PCBs</b>									
Aroclor-1016	µg/kg	200 U	400 U	200 U	80 U	400 U	200 U	200 U	500 U
Aroclor-1221	µg/kg	200 U	400 U	200 U	80 U	400 U	200 U	200 U	500 U
Aroclor-1232	µg/kg	200 U	400 U	200 U	80 U	400 U	200 U	200 U	500 U
Aroclor-1242	µg/kg	200 U	400 U	200 U	80 U	400 U	200 U	200 U	500 U
Aroclor-1248	µg/kg	200 U	400 U	200 U	80 U	400 U	200 U	200 U	500 U
Aroclor-1254	µg/kg	200 U	400 U	200 U	160 U	400 U	200 U	200 U	500 U
Aroclor-1260	µg/kg	200 U	400 U	200 U	160 U	400 U	200 U	200 U	500 U

Notes:

Highlighted results exceed applicable criteria.

µg/kg = Microgram per kilogram

ID = Identification

mg/kg = Milligram per kilogram

PCB = Polychlorinated biphenyl

SU = Standard unit

U = Not detected; the associated numerical value is the reporting limit

**Table 4-3a**  
**Soil Sample Analytical Results for TCLP Metals**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	<b>Location ID</b>	<b>SS01</b>	<b>SS02</b>	<b>SS03</b>
	<b>Field Sample ID</b>	AM-SS01-101509	AM-SS02-101509	AM-SS03-101509
	<b>Matrix</b>	Soil	Soil	Soil
	<b>Sampling Date</b>	10/15/2009	10/15/2009	10/15/2009
<b>TCLP Metals</b>				
Arsenic	mg/L	0.002 U	0.002 U	0.002 U
Barium	mg/L	1 U	1 U	1 U
Cadmium	mg/L	0.007	0.001	0.01
Chromium	mg/L	0.001 U	0.041	0.004
Lead	mg/L	0.002 U	0.002 U	0.002 U
Mercury	mg/L	0.0005 U	0.0005 U	0.0005 U
Selenium	mg/L	0.002 U	0.002 U	0.016
Silver	mg/L	0.001 U	0.001 U	0.001 U

Notes:

ID = Identification

mg/L = Milligram per liter

TCLP = Toxicity Characteristic Leaching Procedure

U = Not detected; the associated numerical value is the reporting limit

**Table 4-3b**  
**Soil Sample Analytical Results for TCL VOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	TACO Most Stringent I/C Inhalation and Ingestion	Location ID	SS01	SS02	SS03
		Field Sample ID	AM-SS01-101509	AM-SS02-101509	AM-SS03-101509
		Matrix	Soil	Soil	Soil
		Sampling Date	10/15/2009	10/15/2009	10/15/2009
1,1,1-Trichloroethane	1200000	µg/kg	5 U	5 U	5000 U
1,1,2,2-Tetrachloroethane	NS	µg/kg	5 U	5 U	5000 U
1,1,2-Trichloroethane	1800000	µg/kg	5 U	5 U	5000 U
1,1-Dichloroethane	1700000	µg/kg	5 U	5 U	5000 U
1,1-Dichloroethylene	470000	µg/kg	5 U	5 U	5000 U
1,2-Dichloroethane	700	µg/kg	5 U	5 U	5000 U
1,2-Dichloropropane	23000	µg/kg	5 U	5 U	5000 U
2-Butanone (MEK)	NS	µg/kg	100 U	100 U	100000 U
4-Methyl-2-Pentanone (MIBK)	NS	µg/kg	10 U	10 U	10000 U
Acetone	100000000	µg/kg	181	100 U	100000 U
Benzene	1600	µg/kg	5 U	5 U	5000 U
Bromodichloromethane	92000	µg/kg	5 U	5 U	5000 U
Bromomethane	15000	µg/kg	10 U	10 U	10000 U
Carbon Disulfide	720000	µg/kg	5 U	5 U	5000 U
Carbon Tetrachloride	640	µg/kg	5 U	5 U	5000 U
Chlorobenzene	210000	µg/kg	5 U	5 U	5000 U
Chlorodibromomethane	1300000	µg/kg	5 U	5 U	5000 U
Chloroethane	NS	µg/kg	10 U	10 U	10000 U
Chloroform	540	µg/kg	5 U	5 U	5000 U
Chloromethane	NS	µg/kg	10 U	10 U	10000 U
Cis-1,2-Dichloroethene	1200000	µg/kg	5 U	5 U	5000 U
Cis-1,3-Dichloropropene	NS	µg/kg	5 U	5 U	5000 U
Dichloromethane	24000	µg/kg	20 U	20 U	20000 U
Ethylbenzene	400000	µg/kg	5 U	5 U	5000 U
Methyl N-Butyl Ketone	NS	µg/kg	10 U	10 U	10000 U
Methylbenzene	650000	µg/kg	5 U	5 U	5000 U
Methyl-Tert-Butylether (MTBE)	8800000	µg/kg	5 U	5 U	5000 U
Styrene	1500000	µg/kg	5 U	5 U	5000 U

**Table 4-3b**  
**Soil Sample Analytical Results for TCL VOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	Location ID	SS01	SS02	SS03
	Field Sample ID	AM-SS01-101509	AM-SS02-101509	AM-SS03-101509
	Matrix	Soil	Soil	Soil
	Sampling Date	10/15/2009	10/15/2009	10/15/2009
TCL VOCs	TACO Most Stringent I/C Inhalation and Ingestion	Unit		
Tetrachloroethene	20000	µg/kg	5 U	5 U
Trans-1,2-Dichloroethene	3100000	µg/kg	5 U	5 U
Trans-1,3-Dichloropropene	2100	µg/kg	5 U	5 U
Tribromomethane	100000	µg/kg	5 U	5000 U
Trichloroethylene	8900	µg/kg	5 U	5000 U
Vinyl Acetate	1600000	µg/kg	10 U	10 U
Vinyl Chloride	1100	µg/kg	10 U	10000 U
Xylene, Total	NS	µg/kg	5 U	5000 U

Notes:

µg/kg = Microgram per kilogram

I/C = Industrial/commercial

ID = Identification

NA = Not analyzed

NS = No standard

TACO = Tiered Approach to Corrective Action Objectives

TCL = Target Compound List

U = Not detected; the associated numerical value is the reporting limit

VOC = Volatile organic compound

**Table 4-3c**  
**Soil Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	Location ID	SS01	SS02	SS03
	Field Sample ID	AM-SS01-101509	AM-SS02-101509	AM-SS03-101509
	Matrix	Soil	Soil	Soil
	Sampling Date	10/15/2009	10/15/2009	10/15/2009
TCL SVOCs	TACO Most Stringent I/C Inhalation and Ingestion	Unit		
1,2,4-Trichlorobenzene	3200000	µg/kg	330 U	330 U
1,2-Benzphenanthracene	780000	µg/kg	757	757
1,2-Dichlorobenzene	560000	µg/kg	330 U	330 U
1,4-Dichlorobenzene	17000000	µg/kg	330 U	330 U
2,4,5-Trichlorophenol	200000000	µg/kg	330 U	330 U
2,4,6-Trichlorophenol	390000	µg/kg	330 U	330 U
2,4-Dichlorophenol	6100000	µg/kg	330 U	330 U
2,4-Dimethylphenol	4100000	µg/kg	330 U	330 U
2,4-Dinitrophenol	4100000	µg/kg	1600 U	1600 U
2,4-Dinitrotoluene	8400	µg/kg	250 U	250 U
2,6-Dinitrotoluene	8400	µg/kg	260 U	260 U
2-Chloronaphthalene	NS	µg/kg	330 U	330 U
2-Chlorophenol	10000000	µg/kg	330 U	330 U
2-Methylnaphthalene	NS	µg/kg	330 U	330 U
2-Methylphenol	100000000	µg/kg	330 U	330 U
2-Nitroaniline	NS	µg/kg	1600 U	1600 U
2-Nitrophenol	NS	µg/kg	1600 U	1600 U
3&4-Methylphenol	NS	µg/kg	330 U	330 U
3,3'-Dichlorobenzidine	13000	µg/kg	660 U	660 U
3,5,5-Trimethyl-2-Cyclohexene-1-One	4600000	µg/kg	330 U	330 U
3-Nitroaniline	NS	µg/kg	1600 U	1600 U
4,6-Dinitro-2-Methylphenol	NS	µg/kg	1600 U	1600 U
4-Bromophenyl Phenyl Ether	NS	µg/kg	330 U	330 U
4-Chloro-3-Methylphenol	NS	µg/kg	330 U	330 U
4-Chlorophenyl Phenyl Ether	NS	µg/kg	330 U	330 U
4-Nitrophenol	NS	µg/kg	1600 U	1600 U
Acenaphthene	120000000	µg/kg	330 U	330 U
Acenaphthylene	NS	µg/kg	330 U	330 U
Anthracene	610000000	µg/kg	330 U	330 U

**Table 4-3c**  
**Soil Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	TCL SVOCs	Location ID	SS01	SS02	SS03
		Field Sample ID	AM-SS01-101509	AM-SS02-101509	AM-SS03-101509
		Matrix	Soil	Soil	Soil
		Sampling Date	10/15/2009	10/15/2009	10/15/2009
Benzidine	NS	µg/kg	330 U	330 U	158,000 U
Benzo(a)anthracene	8000	µg/kg	657	641	158,000 U
Benzo(a)pyrene	800	µg/kg	793	822	43,100 U
Benzo(b)fluoranthene	8000	µg/kg	768	1060	158,000 U
Benzo(g,h,i)perylene	NS	µg/kg	370	432	158,000 U
Benzo(k)fluoranthene	78000	µg/kg	546	639	158,000 U
Benzoic Acid	1000000000	µg/kg	330 U	330 U	158,000 U
Benzyl Alcohol	NS	µg/kg	330 U	330 U	158,000 U
Benzyl Butyl Phthalate	930000	µg/kg	330 U	948	158,000 U
Bis(2-Chloroethoxy)Methane	NS	µg/kg	330 U	330 U	158,000 U
Bis(2-Chloroethyl)Ether	470	µg/kg	330 U	330 U	158,000 U
Bis(2-Chloroisopropyl)Ether	NS	µg/kg	330 U	330 U	158,000 U
Bis(2-Ethylhexyl)Phthalate	410000	µg/kg	402	5060	158,000 U
Carbazole	290000	µg/kg	330 U	330 U	158,000 U
Dibenzo(a,h)anthracene	800	µg/kg	90 U	91	43,100 U
Dibenzofuran	NS	µg/kg	330 U	330 U	158,000 U
Diethyl Phthalate	2000000	µg/kg	330 U	330 U	158,000 U
Dimethyl Phthalate	NS	µg/kg	330 U	330 U	158,000 U
Di-N-Butylphthalate	2300000	µg/kg	330 U	330 U	158,000 U
Di-N-Octylphthalate	10000000	µg/kg	330 U	330 U	158,000 U
Fluoranthene	82000000	µg/kg	1060	1570	158,000 U
Fluorene	82000000	µg/kg	330 U	330 U	158,000 U
Hexachloro-1,3-Butadiene	NS	µg/kg	330 U	330 U	158,000 U
Hexachlorobenzene	1800	µg/kg	330 U	330 U	158,000 U
Hexachlorocyclopentadiene	16000	µg/kg	330 U	330 U	158,000 U
Hexachloroethane	2000000	µg/kg	330 U	330 U	158,000 U
Indeno(1,2,3-cd)pyrene	8000	µg/kg	330 U	449	158,000 U
M-Dichlorobenzene	NS	NS	330 U	330 U	158,000 U
Methanamine, N-Methyl-N-Nitroso	NS	µg/kg	330 U	330 U	158,000 U

**Table 4-3c**  
**Soil Sample Analytical Results for TCL SVOCs**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	<b>TCL SVOCs</b>	<b>Location ID</b>	<b>SS01</b>	<b>SS02</b>	<b>SS03</b>
		<b>Field Sample ID</b>	<b>AM-SS01-101509</b>	<b>AM-SS02-101509</b>	<b>AM-SS03-101509</b>
		<b>Matrix</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>
		<b>Sampling Date</b>	<b>10/15/2009</b>	<b>10/15/2009</b>	<b>10/15/2009</b>
Naphthalene	270000	µg/kg	330 U	330 U	158,000 U
Nitrobenzene	140000	µg/kg	260 U	260 U	124,000 U
N-Nitrosodi-N-Propylamine	800	µg/kg	90 U	90 U	43,100 U
N-Nitrosodiphenylamine	1200000	µg/kg	330 U	330 U	158,000 U
P-Chloroaniline	8200000	µg/kg	330 U	330 U	158,000 U
Pentachlorophenol	24000	µg/kg	330 U	330 U	158,000 U
Phenanthrene	NS	µg/kg	666	752	158,000 U
Phenol	610000000	µg/kg	330 U	330 U	158,000 U
P-Nitroaniline	NS	µg/kg	1600 U	1600 U	790,000 U
Pyrene	61000000	µg/kg	926	1170	158,000 U
Pyridine	NS	µg/kg	330 U	330 U	158,000 U

Notes:

Highlighted results exceed applicable criteria.

µg/kg = Microgram per kilogram

I/C = Industrial/commercial

ID = Identification

NA = Not analyzed

NS = No standard

SVOC = Semivolatile organic compound

TACO = Tiered Approach to Corrective Action Objectives

TCL = Target Compound List

U = Not detected; the associated numerical value is the reporting limit

**Table 4-3d**  
**Soil Sample Analytical Results for TAL Metals**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

TAL Metals	Location ID	SS01	SS02	SS03
	Field Sample ID	AM-SS01-101509	AM-SS02-101509	AM-SS03-101509
	Matrix	Soil	Soil	Soil
	Sampling Date	10/15/2009	10/15/2009	10/15/2009
TACO Most Stringent I/C Inhalation and Ingestion	Unit			
Aluminum	mg/kg	4400	7140	659
Antimony	mg/kg	1 U	5.7	32.4
Arsenic	mg/kg	4.8	7	3.4
Barium	mg/kg	58.5	61.4	205
Beryllium	mg/kg	0.4	0.7	0.2
Cadmium	mg/kg	0.8	4.4	5.5
Calcium Metal	mg/kg	81800	56700	15600
Chromium	mg/kg	17.4	115	2200
Cobalt	mg/kg	3	4.4	10.7
Copper	mg/kg	27.5	55	189
Iron	mg/kg	8550	101000	326000
Lead	mg/kg	23.1	66.4	136
Magnesium	mg/kg	47400	28100	3480
Manganese	mg/kg	304	443	2250
Mercury	mg/kg	0.05 U	0.05 U	0.05 U
Nickel	mg/kg	11.9	58.8	936
Potassium	mg/kg	1560	898	502
Selenium	mg/kg	0.2 U	0.4	16.1
Silver	mg/kg	0.2	0.2	0.9
Sodium	mg/kg	1860	619	23100
Thallium	mg/kg	1 U	1 U	1 U
Vanadium	mg/kg	14.1	20.6	17.4
Zinc	mg/kg	154	16000	3850

Notes:

Highlighted results exceed applicable criteria.

I/C = Industrial/commercial

ID = Identification

mg/kg = Milligram per kilogram

NA = Not analyzed

NS = No standard

TACO = Tiered Approach to Corrective Action Objectives

TAL = Target Analyte List

U = Not detected; the associated numerical value is the reporting limit

**Table 4-3e**  
**Soil Sample Analytical Results for General Chemistry Parameters**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	Location ID	SS01	SS02	SS03
	Field Sample ID	AM-SS01-101509	AM-SS02-101509	AM-SS03-101509
	Matrix	Soil	Soil	Soil
	Sampling Date	10/15/2009	10/15/2009	10/15/2009
<b>Parameter</b>	<b>TACO Most Stringent I/C Inhalation and Ingestion</b>	<b>Unit</b>		
Total Solids	NS	%	86.41	75.11
Cyanide	41000	mg/kg	1.22	3.95
pH	NS	SU	9.67	8.56
<b>PCBs</b>				
Aroclor-1016	NS	µg/kg	80 U	80 U
Aroclor-1221	NS	µg/kg	80 U	80 U
Aroclor-1232	NS	µg/kg	80 U	80 U
Aroclor-1242	NS	µg/kg	80 U	80 U
Aroclor-1248	NS	µg/kg	80 U	80 U
Aroclor-1254	NS	µg/kg	160 U	160 U
Aroclor-1260	NS	µg/kg	160 U	160 U

Notes:

µg/kg = Microgram per kilogram

ID = Identification

mg/kg = Milligram per kilogram

PCB = Polychlorinated biphenyl

SU = Standard unit

U = Not detected; the associated numerical value is the reporting limit

**Table 4-4a**  
**Wipe Sample Analytical Results for TAL Metals**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

	Location ID	WP01	WP01	WP02	WP03
	Matrix	Wipe	Wipe	Wipe	Wipe
	Field Sample ID	AM-WP01-101509	AM-WP01-101509D	AM-WP02-101509	AM-WP03-101509
	Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009
<b>TAL Metals</b>	<b>Unit</b>				
Aluminum	mg/wipe	4290	7780	299	459
Antimony	mg/wipe	66.2	49.3	60.4	65.4
Arsenic	mg/wipe	10.5	10.3	0.6 U	0.6 U
Barium	mg/wipe	966	787	5.4	8.4
Beryllium	mg/wipe	0.6	0.5	0.2	0.2
Cadmium	mg/wipe	26.1	30.3	0.2	0.3
Calcium Metal	mg/wipe	71800	66100	2410	12500
Chromium	mg/wipe	1190	948	10.7	32.3
Cobalt	mg/wipe	22.1	19.7	0.2	11.8
Copper	mg/wipe	1130	824	4.9	19
Iron	mg/wipe	384000	276000	3290	5250
Lead	mg/wipe	250	213	2.2	8.7
Magnesium	mg/wipe	23000	20100	793	574
Manganese	mg/wipe	1700	1560	16.6	55.2
Nickel	mg/wipe	389	302	2.2	13.7
Potassium	mg/wipe	1470	1370	98	119
Selenium	mg/wipe	5.3	4.5	0.6 U	0.6 U
Silver	mg/wipe	2.2	1.3	0.3 U	0.8
Sodium	mg/wipe	10200	8920	2920	3630
Thallium	mg/wipe	3 U	3 U	3 U	3 U
Vanadium	mg/wipe	25.8	26.7	1.7	1.2
Zinc	mg/wipe	9000	6000	451	460
Mercury	mg/wipe	0.00075 U	0.00075 U	0.00075 U	0.00075 U

Notes:

ID = Identification

mg/wipe = Milligram per wipe

TAL = Target Analyte List

U = Not detected; the associated numerical value is the reporting limit

**Table 4-4b**  
**Wipe Sample Analytical Results for General Chemistry Parameters**  
**Anchor Metal Finishing**  
**Schiller Park, Cook County, Illinois**

Location ID	WP01	WP01	WP02	WP03	
Matrix	Wipe	Wipe	Wipe	Wipe	
Field Sample ID	AM-WP01-101509	AM-WP01-101509D	AM-WP02-101509	AM-WP03-101509	
Sampling Date	10/15/2009	10/15/2009	10/15/2009	10/15/2009	
Parameter	Unit				
Cyanide	mg/wipe	22.5	71	7.96	5.34

Notes:

ID = Identification

mg/wipe = Milligram per wipe

## **APPENDIX A**

# **PHOTOGRAPHIC DOCUMENTATION**



**Site:** Anchor Metal Finishing

**Photograph No.:** 1

**Direction:** Southwest

**Subject:** Front entrance gate to Anchor Metal Finishing with lock and chain

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 2

**Direction:** South

**Subject:** Front entrance to office and building with condemned notice on the door

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 3

**Direction:** Northeast

**Subject:** Open drums with unknown contents and crystal growth (waste sample collected)

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 4

**Direction:** Southwest

**Subject:** Closed 55-gallon drum labeled "Hazardous Waste" (waste sample collected)

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 5

**Direction:** Northeast

**Subject:** Closed 55-gallon drum in foreground labeled "Muriatic Acid" (liquid waste sample collected)

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 6

**Direction:** Northwest

**Subject:** Compromised 1-cubic-yard box possibly containing sludge (solid waste sample collected)

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 7

**Direction:** Southeast

**Subject:** Shelving unit containing full 1-cubic-yard sludge boxes

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 8

**Direction:** Northwest

**Subject:** Partially filled sump in northwest corner of building (liquid waste sample collected)

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 9

**Direction:** West

**Subject:** Open drums of sludge on elevated storage loft of property (solid waste sample collected)

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 10

**Direction:** North

**Subject:** Staining on southern exterior wall (wipe sample collected)

**Date:** 10/15/2009

**Photographer:** Rick Mehl



**Site:** Anchor Metal Finishing

**Photograph No.:** 11

**Direction:** Southwest

**Subject:** Discolored soil at northwest bay entrance to building (soil sample collected)

**Date:** 10/15/2009

**Photographer:** Marcus Muccianti



**Site:** Anchor Metal Finishing

**Photograph No.:** 12

**Direction:** Southwest

**Subject:** RV parked near west bay door; potential living quarters

**Date:** 10/15/2009

**Photographer:** Rick Mehl



**Site:** Anchor Metal Finishing

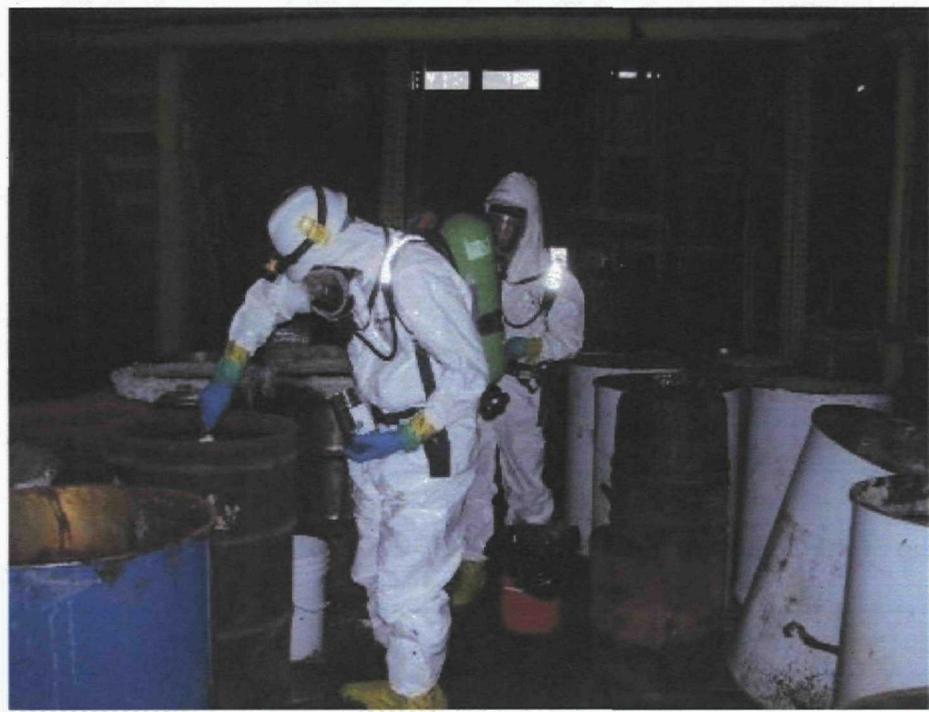
**Photograph No.:** 13

**Direction:** West

**Subject:** WESTON START sampling unknown sludge on building floor

**Date:** 10/15/2009

**Photographer:** Rick Mehl



**Site:** Anchor Metal Finishing

**Photograph No.:** 14

**Direction:** North

**Subject:** WESTON START sampling unknown sludge in drum labeled "Hazardous Waste"

**Date:** 10/15/2009

**Photographer:** Rick Mehl

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**APPENDIX B**  
**LABORATORY ANALYTICAL AND DATA VALIDATION REPORTS**

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**ANCHOR METAL FINISHING SITE  
SHILLER PARK, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** November 20, 2009

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 9-4366

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)

**Weston Analytical Work Order #/TDD #:** 20405.016.001.0794.00/S05-0001-0910-002

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for six waste liquid, nine waste solid, three soil, and four wipe samples collected for the Anchor Metal Finishing Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Volatile Organic Compounds (VOC) by SW-846 Method 8260B
- Semivolatile Organic Compounds (SVOC) by SW-846 Method 8270C
- Polychlorinated Biphenyls (PCB) by SW-846 Method 8082
- Metals by SW-846 Methods 6010B and 7470A
- Toxicity Characteristic Leaching Procedure (TCLP) Metals by SW-846 Methods 1311, 6010B, and 7470A
- Cyanide by Standard Method 4500CN,C,E
- Ignitability by SW-846 Method 1010
- Corrosivity by Standard Method 4500H+B

A level II data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008 and "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated October 2004. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
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## VOCs BY SW-846 METHOD 8260B

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
AM-WS01-101509	9-4366-001	Solid	10/15/2009	10/20/2009
AM-WS02-101509	9-4366-002	Solid	10/15/2009	10/20/2009
AM-WS03-101509	9-4366-003	Solid	10/15/2009	10/21/2009
AM-WS04-101509	9-4366-004	Solid	10/15/2009	10/21/2009
AM-WS05-101509	9-4366-005	Solid	10/15/2009	10/21/2009
AM-WS06-101509	9-4366-006	Solid	10/15/2009	10/21/2009
AM-WS08-101509	9-4366-008	Solid	10/15/2009	10/21/2009
AM-WL01-101509	9-4366-009	Liquid	10/15/2009	10/21/2009
AM-WL02-101509	9-4366-010	Liquid	10/15/2009	10/21/2009
AM-WL03-101509	9-4366-011	Liquid	10/15/2009	10/22/2009
AM-WL04-101509	9-4366-012	Liquid	10/15/2009	10/22/2009
AM-SS01-101509	9-4366-014	Soil	10/15/2009	10/20/2009
AM-SS02-101509	9-4366-015	Soil	10/15/2009	10/21/2009
AM-SS03-101509	9-4366-016	Soil	10/15/2009	10/20/2009
AM-WS03-101509D	9-4366-020	Solid	10/15/2009	10/22/2009
AM-WL03-101509D	9-4366-021	Liquid	10/15/2009	10/22/2009

### 2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

### 3. Blanks

Method blanks were analyzed with the VOC analyses. The method blanks were free of target compound contamination above the reporting limit.

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Anchor Metal Finishing Site  
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**4. Surrogate Results**

The surrogate recovery results were within the laboratory-established quality control (QC) limits except for as follows. In some instances one of the three surrogates was slightly outside QC limits. No qualification is required for one surrogate being outside the QC limit.

For samples AM-WL03-101509 and AM-WL04-101509, only one surrogate was outside the QC limits; however, this one surrogate (dibromofluoromethane) had low recoveries of 10 and 37 percent in these samples. This indicates possible matrix interference with these samples.

**5. Laboratory Control Sample (LCS) Results**

The LCS recoveries were within laboratory QC limits.

**6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL analyzed an MS and MSD using soil samples AM-SS01-101509 and AM-SS02-101509 as spiked samples.

For the MS/MSDs associated with sample AM-SS01-101509, the MS recoveries were within QC limits while the MSD recoveries were all outside QC limits. FEL indicated that this was due to a poor sample injection of the MSD sample. No qualification was applied.

For the MS/MSDs associated with sample AM-SS02-101509, the MS and/or MSD recoveries for toluene and chlorobenzene were detected slightly high indicating some matrix interference associated with this sample. Because VOCs were not detected in this sample no qualifications were applied.

**7. Field Duplicate Results**

Waste sample AM-WS03-101509D is a field duplicate of sample AM-WS03-101509 and sample AM-WL03-101509D is a field duplicate of sample AM-WL03-101509. The results for the parent sample and field duplicate samples were all non-detect for VOCs indicating a good correlation between the parent and its field duplicate sample.

**8. Overall Assessment**

The VOC data are acceptable for use based on the information received.

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

## SVOCs BY SW-846 METHOD 8270C

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
AM-WS01-101509	9-4366-001	Solid	10/15/2009	10/21/2009	10/22/2009
AM-WS02-101509	9-4366-002	Solid	10/15/2009	10/21/2009	10/22/2009
AM-WS03-101509	9-4366-003	Solid	10/15/2009	10/21/2009	10/22/2009
AM-WS04-101509	9-4366-004	Solid	10/15/2009	10/21/2009	10/22/2009
AM-WS05-101509	9-4366-005	Solid	10/15/2009	10/21/2009	10/22/2009
AM-WS06-101509	9-4366-006	Solid	10/15/2009	10/21/2009	10/21/2009
AM-WS08-101509	9-4366-008	Solid	10/15/2009	10/22/2009	10/22/2009
AM-WL01-101509	9-4366-009	Liquid	10/15/2009	10/22/2009	10/22/2009
AM-WL02-101509	9-4366-010	Liquid	10/15/2009	10/22/2009	10/22/2009
AM-WL03-101509	9-4366-011	Liquid	10/15/2009	10/22/2009	10/22/2009
AM-WL04-101509	9-4366-012	Liquid	10/15/2009	10/22/2009	10/22/2009
AM-SS01-101509	9-4366-014	Soil	10/15/2009	10/21/2009	10/22/2009
AM-SS02-101509	9-4366-015	Soil	10/15/2009	10/21/2009	10/22/2009
AM-SS03-101509	9-4366-016	Soil	10/15/2009	10/21/2009	10/23/2009
AM-WS03-101509D	9-4366-020	Solid	10/15/2009	10/21/2009	10/22/2009
AM-WL03-101509D	9-4366-021	Liquid	10/15/2009	10/22/2009	10/22/2009

### 2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

### 3. Blanks

Method blanks were analyzed with the SVOC analyses. The method blanks were free of target compound contamination above the reporting limit.

### 4. Surrogate Results

The surrogate recovery results were within the laboratory-established QC limits except for as follows.

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Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
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In two samples one of the six surrogates were outside the QC limit. Qualification is not required when one surrogate is outside QC limit and these two samples were diluted which could result in poor surrogate recovery.

In samples AM-WL03-101509 and AM-WL03-101509D, three of the surrogates were not recovered indicating matrix interferences in these samples. The quantitation limits for the non-detected results in these two samples were flagged "UJ" as estimated due to apparent matrix interferences.

## **5. LCS Results**

The percent recoveries for the LCS and LCS duplicate (LCSD) results were within the laboratory-established QC limits. The relative percent difference (RPD) between the LCS and LCSD results were within QC limits.

## **6. Field Duplicate Results**

Waste sample AM-WS03-101509D is a field duplicate of sample AM-WS03-101509 and sample AM-WL03-101509D is a field duplicate of sample AM-WL03-101509. The results for the parent sample and field duplicate samples were non-detect for all SVOCs except one indicating a good correlation between the parent and its field duplicate sample.

There was a detection of bis(2-ethylhexyl)phthalate in sample AM-WS03-1015 and its field duplicate. The RPD between these two sample results was 76 which is somewhat high. This is likely due to sample heterogeneity.

## **7. Overall Assessment**

The SVOC data are acceptable for use as qualified based on the information received.

Data Validation Report  
Anchor Metal Finishing Site.  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

## PCBs BY U.S. EPA SW-846 METHOD 8082

### 1. Samples

The following table summarizes the samples for which this data validation was conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
AM-WS01-101509	9-4366-001	Solid	10/15/2009	10/19/2009	10/22/2009
AM-WS02-101509	9-4366-002	Solid	10/15/2009	10/21/2009	10/23/2009
AM-WS03-101509	9-4366-003	Solid	10/15/2009	10/19/2009	10/22/2009
AM-WS04-101509	9-4366-004	Solid	10/15/2009	10/19/2009	10/23/2009
AM-WS05-101509	9-4366-005	Solid	10/15/2009	10/19/2009	10/22/2009
AM-WS06-101509	9-4366-006	Solid	10/15/2009	10/19/2009	10/22/2009
AM-WS07-101509	9-4366-007	Solid	10/15/2009	10/19/2009	10/23/2009
AM-WS08-101509	9-4366-008	Solid	10/15/2009	10/19/2009	10/23/2009
AM-WL01-101509	9-4366-009	Liquid	10/15/2009	10/19/2009	10/23/2009
AM-WL02-101509	9-4366-010	Liquid	10/15/2009	10/19/2009	10/23/2009
AM-WL03-101509	9-4366-011	Liquid	10/15/2009	10/19/2009	10/23/2009
AM-WL04-101509	9-4366-012	Liquid	10/15/2009	10/19/2009	10/23/2009
AM-SS01-101509	9-4366-014	Soil	10/15/2009	10/19/2009	10/22/2009
AM-SS02-101509	9-4366-015	Soil	10/15/2009	10/19/2009	10/22/2009
AM-SS03-101509	9-4366-016	Soil	10/15/2009	10/19/2009	10/23/2009
AM-WS03-101509D	9-4366-020	Solid	10/15/2009	10/19/2009	10/23/2009
AM-WL03-101509D	9-4366-021	Liquid	10/15/2009	10/19/2009	10/23/2009

### 2. Holding Times

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

### 3. Blanks

Method blanks were analyzed with the PCB analyses. The method blanks were free of target compound contamination.

### 4. Surrogates

The surrogate recoveries were within the laboratory-established QC limits for percent recovery except as follows. In sample AM-WS03-101509D, one of the two surrogates was detected low due to sample dilution. No qualification is required.

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**5. LCS Results**

The LCS results were within the laboratory-established QC limits.

**6. Field Duplicate Results**

Waste sample AM-WS03-101509D is a field duplicate of sample AM-WS03-101509 and sample AM-WL03-101509D is a field duplicate of sample AM-WL03-101509. The results for the parent sample and field duplicate samples were all non-detect for PCBs indicating a good correlation between the parent and its field duplicate sample.

**7. Overall Assessment**

The data are acceptable for use based on the information received.

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

## **TOTAL METALS BY SW-846 METHODS 6010B AND 7470A AND TCLP METALS BY METHODS 1311, 6010B, AND 7470A**

### **1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
AM-WS01-101509	9-4366-001	Solid	10/15/2009	10/20/2009 – 10/26/2009
AM-WS02-101509	9-4366-002	Solid	10/15/2009	10/20/2009 – 10/26/2009
AM-WS03-101509	9-4366-003	Solid	10/15/2009	10/20/2009 – 10/26/2009
AM-WS04-101509	9-4366-004	Solid	10/15/2009	10/20/2009 – 10/26/2009
AM-WS05-101509	9-4366-005	Solid	10/15/2009	10/20/2009 – 10/22/2009
AM-WS06-101509	9-4366-006	Solid	10/15/2009	10/20/2009 – 10/22/2009
AM-WS07-101509	9-4366-007	Solid	10/15/2009	10/20/2009 – 10/26/2009
AM-WS08-101509	9-4366-008	Solid	10/15/2009	10/20/2009 – 10/22/2009
AM-WL01-101509	9-4366-009	Liquid	10/15/2009	10/20/2009 – 10/22/2009
AM-WL02-101509	9-4366-010	Liquid	10/15/2009	10/21/2009 – 10/22/2009
AM-WL03-101509	9-4366-011	Liquid	10/15/2009	10/21/2009 – 10/22/2009
AM-WL04-101509	9-4366-012	Liquid	10/15/2009	10/21/2009 – 10/22/2009
AM-SS01-101509	9-4366-014	Soil	10/15/2009	10/20/2009 – 10/26/2009
AM-SS02-101509	9-4366-015	Soil	10/15/2009	10/20/2009 – 10/26/2009
AM-SS03-101509	9-4366-016	Soil	10/15/2009	10/20/2009 – 10/26/2009
AM-WP01-101509	9-4366-017	Wipe	10/15/2009	10/21/2009 – 10/22/2009
AM-WP02-101509	9-4366-018	Wipe	10/15/2009	10/21/2009 – 10/22/2009
AM-WP03-101509	9-4366-019	Wipe	10/15/2009	10/21/2009 – 10/22/2009
AM-WS03-101509D	9-4366-020	Solid	10/15/2009	10/20/2009 – 10/26/2009
AM-WL03-101509D	9-4366-021	Liquid	10/15/2009	10/21/2009 – 10/22/2009
AM-WP01-101509D	9-4366-022	Wipe	10/15/2009	10/21/2009 – 10/22/2009

### **2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days from sample collection to analysis for mercury and 180 days from sample collection to analysis for all other metals.

### **3. Blank Results**

Method blanks were analyzed with the metals analyses. The blanks were free of target analyte contamination above the reporting limits.

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

**4. LCS Results**

The LCS recoveries were within the laboratory-established QC limits for target analytes.

**5. MS and MSD Results**

FEL analyzed and MS/MSD for the total metals analysis using sample AM-SS01-101509 as the spiked sample. Several metals were outside the QC limits.

In some of these instances, the sample concentration was greater than four times the spike amount. In these instances, no qualification is required.

The following analytes were detected low in the MS and/or MSD: antimony, barium, chromium, cobalt, copper, lead, nickel, and vanadium. In soil samples only, the detected results for these analytes were flagged "J" and the quantitation limits for non-detected results were flagged "UJ" as estimated due to apparent matrix interference.

The following analytes were detected high in the MS and/or MSD: manganese and potassium. In soil samples only, the detected results for these analytes were flagged "J" as estimated due to apparent matrix interference.

**6. Field Duplicate Results**

Waste sample AM-WS03-101509D is a field duplicate of sample AM-WS03-101509; sample AM-WL03-101509D is a field duplicate of sample AM-WL03-101509; and sample AM-WP01-101509D is a field duplicate of sample AM-WP01-101509.

For the total metals results, the field duplicate and parent sample had excellent correlation. The RPDs ranged from 0 to 67 with the vast majority of the RPDs being fairly low.

For the TCLP metals analysis, only duplicate pair analyzed were sample AM-WS03-101509 and it's duplicate. For the 8 TCLP metals, three were non-detect in both samples. For four of the metals, there was a detection in only either the field duplicate or the investigative sample. One metal, TCLP chromium, was detected in both samples and had an RPD of 67. In summary, the correlation between the results for this field duplicate pair was somewhat poor indicating some heterogeneity with the leaching of metals from this sample.

**7. Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

**GENERAL CHEMISTRY PARAMETERS (total cyanide by 4500CN,C,E; ignitability by SW-846 1010, and pH by 4500H+B)**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
AM-WS01-101509	9-4366-001	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WS02-101509	9-4366-002	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WS03-101509	9-4366-003	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WS04-101509	9-4366-004	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WS05-101509	9-4366-005	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WS06-101509	9-4366-006	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WS07-101509	9-4366-007	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WS08-101509	9-4366-008	Solid	10/15/2009	10/19/2009 – 10/21/2009
AM-WL01-101509	9-4366-009	Liquid	10/15/2009	10/19/2009 – 10/21/2009
AM-WL02-101509	9-4366-010	Liquid	10/15/2009	10/19/2009 – 10/21/2009
AM-WL03-101509	9-4366-011	Liquid	10/15/2009	10/19/2009 – 10/23/2009
AM-WL04-101509	9-4366-012	Liquid	10/15/2009	10/19/2009 – 10/21/2009
AM-WL05-101509	9-4366-013	Liquid	10/15/2009	10/19/2009
AM-SS01-101509	9-4366-014	Soil	10/15/2009	10/19/2009 – 10/21/2009
AM-SS02-101509	9-4366-015	Soil	10/15/2009	10/19/2009 – 10/21/2009
AM-SS03-101509	9-4366-016	Soil	10/15/2009	10/19/2009 – 10/21/2009
AM-WP01-101509	9-4366-017	Wipe	10/15/2009	10/22/2009
AM-WP02-101509	9-4366-018	Wipe	10/15/2009	10/22/2009
AM-WP03-101509	9-4366-019	Wipe	10/15/2009	10/22/2009
AM-WS03-101509D	9-4366-020	Solid	10/15/2009	10/19/2009 – 10/22/2009
AM-WL03-101509D	9-4366-021	Liquid	10/15/2009	10/19/2009 – 10/23/2009
AM-WP01-101509D	9-4366-022	Wipe	10/15/2009	10/22/2009

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

**2. Holding Times**

All holding time limits for cyanide, ignitability, and pH were acceptable. The holding time limit limits for these analyses are as follows:

- 14 days for cyanide
- As soon as possible for ignitability and pH

**3. Blank Results**

Method blanks were analyzed with the cyanide analysis. The blanks were free of target analyte contamination above the reporting limits.

**4. LCS Results**

An LCS was analyzed with the cyanide analyses and a calibration verification sample was analyzed with the cyanide and pH analyses. These QC samples were within the QC limits.

**5. MS and MSD Results**

For the cyanide analysis, FEL used samples AM-WS01-101509 and AM-WL03-101509D as the spiked sample. The percent recoveries and RPDs were within QC limits.

**6. Field Duplicate Results**

Waste sample AM-WS03-101509D is a field duplicate of sample AM-WS03-101509; sample AM-WL03-101509D is a field duplicate of sample AM-WL03-101509; and sample AM-WP01-101509D is a field duplicate of sample AM-WP01-101509.

The correlation between the field duplicate and its parent sample were excellent for the waste liquid and the waste solid sample.

For the wipe sample duplicate, the RPD for the cyanide result was 104. This indicates heterogeneity in the surface wiped.

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

**7. Laboratory Duplicate Results**

Laboratory duplicates were analyzed with the pH analyses. The duplicate RPDs were within QC limits.

**8. Overall Assessment**

The cyanide, ignitability, and pH data are acceptable for use based on the information received.

Data Validation Report  
Anchor Metal Finishing Site  
First Environmental Laboratories, Inc.  
Laboratory Project #: 9-4366

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.**  
**RESULTS SUMMARY WITH QUALIFIERS**



**First  
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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

November 02, 2009

Ms. Lisa Graczyk  
**DYNAMAC CORPORATION**  
WESTON SOLUTIONS, INC.  
20 N. Wacker Drive Suite 1210  
Chicago, IL 60606-2901

Project ID: Anchor Metals SA  
First Environmental File ID: 9-4366  
Date Received: October 16, 2009

Dear Ms. Lisa Graczyk:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002205: effective 02/06/09 through 02/28/10.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200 or [neal@firstenv.com](mailto:neal@firstenv.com).

Sincerely,

Neal Cleghorn  
Project Manager



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## Case Narrative

### DYNAMAC CORPORATION

Project ID: **Anchor Metals SA**

First Environmental File ID: **9-4366**

Date Received: **October 16, 2009**

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
.RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

### Sample Batch Comments:

Sample acceptance criteria were met.

### Method Comments

Lab Number	Sample ID	Comments:
9-4366-001	AM-WS01-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-001	AM-WS01-101509	<i>Semi-Volatile Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-001	AM-WS01-101509	<i>Volatile Organic Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-002	AM-WS02-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-002	AM-WS02-101509	<i>Semi-Volatile Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-002	AM-WS02-101509	<i>Volatile Organic Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-003	AM-WS03-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.



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## Case Narrative

### DYNAMAC CORPORATION

Project ID: **Anchor Metals SA**

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All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

9-4366-003	AM-WS03-101509	<i>Semi-Volatile Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-003	AM-WS03-101509	<i>Volatile Organic Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-004	AM-WS04-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-004	AM-WS04-101509	<i>Semi-Volatile Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-004	AM-WS04-101509	<i>Volatile Organic Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-005	AM-WS05-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-005	AM-WS05-101509	<i>Semi-Volatile Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-005	AM-WS05-101509	<i>Volatile Organic Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-006	AM-WS06-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-006	AM-WS06-101509	<i>Semi-Volatile Compounds</i> The reporting limits are elevated due to matrix interference.



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## Case Narrative

### DYNAMAC CORPORATION

Project ID: **Anchor Metals SA**

First Environmental File ID: **9-4366**

Date Received: **October 16, 2009**

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RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

9-4366-006	AM-WS06-101509	<i>Volatile Organic Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-007	AM-WS07-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-008	AM-WS08-101509	<i>pH @ 25°C, 1:10</i> Sample analyzed using pH strip due to matrix.
9-4366-008	AM-WS08-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-009	AM-WL01-101509	<i>pH @ 25°C, 1:10</i> Sample analyzed using pH strip due to matrix.
9-4366-009	AM-WL01-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-010	AM-WL02-101509	<i>pH @ 25°C, 1:10</i> Sample analyzed using pH strip due to matrix.
9-4366-010	AM-WL02-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-011	AM-WL03-101509	<i>pH @ 25°C, 1:10</i> Sample analyzed using pH strip due to matrix.
9-4366-011	AM-WL03-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.



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## Case Narrative

### DYNAMAC CORPORATION

Project ID: **Anchor Metals SA**

First Environmental File ID: **9-4366**

Date Received: **October 16, 2009**

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K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

9-4366-011	AM-WL03-101509	<i>Semi-Volatile Compounds</i> Surrogates recovery outside control limits; low bias due to matrix interference.
9-4366-011	AM-WL03-101509	<i>Volatile Organic Compounds</i> Surrogate recovery outside control limits; low bias due to matrix interference.
9-4366-012	AM-WL04-101509	<i>pH @ 25°C, 1:10</i> Sample analyzed using pH strip due to matrix.
9-4366-012	AM-WL04-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-012	AM-WL04-101509	<i>Volatile Organic Compounds</i> Surrogate recovery outside control limits; low bias due to matrix interference.
9-4366-013	AM-WL05-101509	<i>pH @ 25°C, 1:10</i> Sample analyzed using pH strip due to matrix.
9-4366-015	AM-SS02-101509	<i>Volatile Organic Compounds</i> Surrogate recovery outside control limits; high bias due to matrix interference.
9-4366-016	AM-SS03-101509	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
9-4366-016	AM-SS03-101509	<i>Semi-Volatile Compounds</i> The reporting limits are elevated due to matrix interference.
9-4366-016	AM-SS03-101509	<i>Volatile Organic Compounds</i> The reporting limits are elevated due to matrix interference.



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## Case Narrative

### DYNAMAC CORPORATION

Project ID: **Anchor Metals SA**

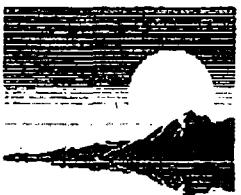
First Environmental File ID: **9-4366**

Date Received: **October 16, 2009**

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K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

- 9-4366-020 AM-WS03-101509D *Semi-Volatile Compounds*  
The reporting limits are elevated due to matrix interference.
- 9-4366-021 AM-WL03-101509D *pH @ 25°C, 1:10*  
Sample analyzed using pH strip due to matrix.
- 9-4366-021 AM-WL03-101509D *Polychlorinated biphenyls (PCBs)*  
The reporting limits are elevated due to matrix interference.
- 9-4366-021 AM-WL03-101509D *Semi-Volatile Compounds*  
Surrogates recovery outside control limits; low bias due to matrix interference.
- 9-4366-021 AM-WL03-101509D *Volatile Organic Compounds*  
Surrogate recovery outside control limits; low bias due to matrix interference.



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### Analytical Report

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 13:15

**Sample ID:** AM-WS01-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-001

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.78	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	10.97		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS01-101509  
**Sample No:** 9-4366-001

**Date Collected:** 10/15/09  
**Time Collected:** 13:15  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
TCLP Metals Method 1311	Method: 6010B				Preparation Method 3010A
Analysis Date: 10/26/09					Preparation Date: 10/20/09
Arsenic		< 0.002	0.002	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		0.002	0.001	mg/L	
Chromium		0.003	0.001	mg/L	
Lead		< 0.002	0.002	mg/L	
Selenium		< 0.002	0.002	mg/L	
Silver		< 0.001	0.001	mg/L	

TCLP Metals Method 1311	Method: 7470A
Analysis Date: 10/21/09	
Mercury	< 0.0005 0.0005 mg/L

Volatile Organic Compounds	Method: 5035A/8260B
Analysis Date: 10/20/09	
Acetone	< 100,000 100 ug/kg
Benzene	< 5,000 5.0 ug/kg
Bromodichloromethane	< 5,000 5.0 ug/kg
Bromoform	< 5,000 5.0 ug/kg
Bromomethane	< 10,000 10.0 ug/kg
2-Butanone (MEK)	< 100,000 100 ug/kg
Carbon disulfide	< 5,000 5.0 ug/kg
Carbon tetrachloride	< 5,000 5.0 ug/kg
Chlorobenzene	< 5,000 5.0 ug/kg
Chlorodibromomethane	< 5,000 5.0 ug/kg
Chloroethane	< 10,000 10.0 ug/kg
Chloroform	< 5,000 5.0 ug/kg
Chloromethane	< 10,000 10.0 ug/kg
1,1-Dichloroethane	< 5,000 5.0 ug/kg
1,2-Dichloroethane	< 5,000 5.0 ug/kg
1,1-Dichloroethene	< 5,000 5.0 ug/kg
cis-1,2-Dichloroethene	< 5,000 5.0 ug/kg
trans-1,2-Dichloroethene	< 5,000 5.0 ug/kg
1,2-Dichloropropane	< 5,000 5.0 ug/kg
cis-1,3-Dichloropropene	< 5,000 5.0 ug/kg
trans-1,3-Dichloropropene	< 5,000 5.0 ug/kg
Ethylbenzene	< 5,000 5.0 ug/kg
2-Hexanone	< 10,000 10.0 ug/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS01-101509  
**Sample No:** 9-4366-001

**Date Collected:** 10/15/09  
**Time Collected:** 13:15  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/20/09				
Methyl-tert-butylether (MTBE)	< 5,000	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10,000	10.0	ug/kg	
Methylene chloride	< 20,000	20.0	ug/kg	
Styrene	< 5,000	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5,000	5.0	ug/kg	
Tetrachloroethene	< 5,000	5.0	ug/kg	
Toluene	< 5,000	5.0	ug/kg	
1,1,1-Trichloroethane	< 5,000	5.0	ug/kg	
1,1,2-Trichloroethane	< 5,000	5.0	ug/kg	
Trichloroethene	< 5,000	5.0	ug/kg	
Vinyl acetate	< 10,000	10.0	ug/kg	
Vinyl chloride	< 10,000	10.0	ug/kg	
Xylene, Total	< 5,000	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09				<b>Preparation Method 3540C</b>
Preparation Date: 10/21/09				
Acenaphthene	< 73,000	330	ug/kg	
Acenaphthylene	< 73,000	330	ug/kg	
Anthracene	< 73,000	330	ug/kg	
Benzidine	< 73,000	330	ug/kg	
Benzo(a)anthracene	< 73,000	330	ug/kg	
Benzo(a)pyrene	< 20,000	90	ug/kg	
Benzo(b)fluoranthene	< 73,000	330	ug/kg	
Benzo(k)fluoranthene	< 73,000	330	ug/kg	
Benzo(ghi)perylene	< 73,000	330	ug/kg	
Benzoic acid	< 73,000	330	ug/kg	
Benzyl alcohol	< 73,000	330	ug/kg	
bis(2-Chloroethoxy)methane	< 73,000	330	ug/kg	
bis(2-Chloroethyl)ether	< 73,000	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 73,000	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 73,000	330	ug/kg	
4-Bromophenyl phenyl ether	< 73,000	330	ug/kg	
Butyl benzyl phthalate	< 73,000	330	ug/kg	
Carbazole	< 73,000	330	ug/kg	
4-Chloroaniline	< 73,000	330	ug/kg	
4-Chloro-3-methylphenol	< 73,000	330	ug/kg	
2-Chloronaphthalene	< 73,000	330	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS01-101509  
**Sample No:** 9-4366-001

**Date Collected:** 10/15/09  
**Time Collected:** 13:15  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
Semi-Volatile Compounds	8270C			Preparation Method 3540C	
Analysis Date:	10/22/09			Preparation Date:	10/21/09
2-Chlorophenol		< 73,000	330	ug/kg	
4-Chlorophenyl phenyl ether		< 73,000	330	ug/kg	
Chrysene		< 73,000	330	ug/kg	
Dibenzo(a,h)anthracene		< 20,000	90	ug/kg	
Dibenzofuran		< 73,000	330	ug/kg	
1,2-Dichlorobenzene		< 73,000	330	ug/kg	
1,3-Dichlorobenzene		< 73,000	330	ug/kg	
1,4-Dichlorobenzene		< 73,000	330	ug/kg	
3,3'-Dichlorobenzidine		< 146,000	660	ug/kg	
2,4-Dichlorophenol		< 73,000	330	ug/kg	
Diethyl phthalate		< 73,000	330	ug/kg	
2,4-Dimethylphenol		< 73,000	330	ug/kg	
Dimethyl phthalate		< 73,000	330	ug/kg	
Di-n-butyl phthalate		< 73,000	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 365,000	1600	ug/kg	
2,4-Dinitrophenol		< 365,000	1600	ug/kg	
2,4-Dinitrotoluene		< 55,000	250	ug/kg	
2,6-Dinitrotoluene		< 58,000	260	ug/kg	
Di-n-octylphthalate		< 73,000	330	ug/kg	
Fluoranthene		< 73,000	330	ug/kg	
Fluorene		< 73,000	330	ug/kg	
Hexachlorobenzene		< 73,000	330	ug/kg	
Hexachlorobutadiene		< 73,000	330	ug/kg	
Hexachlorocyclopentadiene		< 73,000	330	ug/kg	
Hexachloroethane		< 73,000	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 73,000	330	ug/kg	
Isophorone		< 73,000	330	ug/kg	
2-Methylnaphthalene		< 73,000	330	ug/kg	
2-Methylphenol		< 73,000	330	ug/kg	
3 & 4-Methylphenol		< 73,000	330	ug/kg	
Naphthalene		< 73,000	330	ug/kg	
2-Nitroaniline		< 365,000	1600	ug/kg	
3-Nitroaniline		< 365,000	1600	ug/kg	
4-Nitroaniline		< 365,000	1600	ug/kg	
Nitrobenzene		< 58,000	260	ug/kg	
2-Nitrophenol		< 365,000	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS01-101509  
**Sample No:** 9-4366-001

**Date Collected:** 10/15/09  
**Time Collected:** 13:15  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

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Analyte	Method:	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Preparation Method 3540C</b>			
Analysis Date: 10/22/09		Preparation Date: 10/21/09			
4-Nitrophenol	8270C	< 365,000	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 20,000	90	ug/kg	
n-Nitrosodimethylamine		< 73,000	330	ug/kg	
n-Nitrosodiphenylamine		< 73,000	330	ug/kg	
Pentachlorophenol		< 73,000	330	ug/kg	
Phenanthrene		< 73,000	330	ug/kg	
Phenol		< 73,000	330	ug/kg	
Pyrene		< 73,000	330	ug/kg	
Pyridine		< 73,000	330	ug/kg	
1,2,4-Trichlorobenzene		< 73,000	330	ug/kg	
2,4,5-Trichlorophenol		< 73,000	330	ug/kg	
2,4,6-Trichlorophenol		< 73,000	330	ug/kg	

Total Metals	Method:	Result	Preparation Method	Preparation Date:
Analysis Date: 10/22/09	6010B		3050B	10/19/09
Aluminum		422	5.0	mg/kg
Antimony		13.1	1.0	mg/kg
Arsenic		1.9	0.2	mg/kg
Barium		146	0.1	mg/kg
Beryllium		0.1	0.1	mg/kg
Cadmium		3.9	0.1	mg/kg
Calcium		10,500	1.0	mg/kg
Chromium		864	0.1	mg/kg
Cobalt		5.9	0.1	mg/kg
Copper		121	0.1	mg/kg
Iron		160,000	1.0	mg/kg
Lead		78.6	0.2	mg/kg
Magnesium		2,030	10	mg/kg
Manganese		1,210	0.1	mg/kg
Nickel		410	0.1	mg/kg
Potassium		316	10	mg/kg
Selenium		3.8	0.2	mg/kg
Silver		0.5	0.1	mg/kg
Sodium		8,000	10	mg/kg
Thallium		< 1.0	1.0	mg/kg
Vanadium		9.8	1.0	mg/kg
Zinc		2,000	0.5	mg/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS01-101509  
**Sample No:** 9-4366-001

**Date Collected:** 10/15/09  
**Time Collected:** 13:15  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b> Analysis Date: 10/22/09	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b> Preparation Date: 10/19/09
<b>Total Metals</b> Analysis Date: 10/20/09	<b>Method: 7470A</b>			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b> Analysis Date: 10/22/09	<b>Method: 8082</b>			<b>Preparation Method 3540C</b> Preparation Date: 10/19/09
Aroclor 1016	< 200	80.0	ug/kg	
Aroclor 1221	< 200	80.0	ug/kg	
Aroclor 1232	< 200	80.0	ug/kg	
Aroclor 1242	< 200	80.0	ug/kg	
Aroclor 1248	< 200	80.0	ug/kg	
Aroclor 1254	< 200	160	ug/kg	
Aroclor 1260	< 200	160	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 13:20

**Sample ID:** AM-WS02-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-002

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	1.08	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	10.53		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS02-101509  
**Sample No:** 9-4366-002

**Date Collected:** 10/15/09  
**Time Collected:** 13:20  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>	<b>Method: 6010B</b>			<b>Preparation Method 3010A</b>
Analysis Date:	10/26/09			Preparation Date: 10/20/09
Arsenic	< 0.002	0.002	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	0.002	0.001	mg/L	
Chromium	0.020	0.001	mg/L	
Lead	0.005	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	
Silver	< 0.001	0.001	mg/L	
<b>TCLP Metals Method 1311</b>	<b>Method: 7470A</b>			
Analysis Date:	10/21/09			
Mercury	< 0.0005	0.0005	mg/L	
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date:	10/20/09			
Acetone	< 100,000	100	ug/kg	
Benzene	< 5,000	5.0	ug/kg	
Bromodichloromethane	< 5,000	5.0	ug/kg	
Bromoform	< 5,000	5.0	ug/kg	
Bromomethane	< 10,000	10.0	ug/kg	
2-Butanone (MEK)	< 100,000	100	ug/kg	
Carbon disulfide	< 5,000	5.0	ug/kg	
Carbon tetrachloride	< 5,000	5.0	ug/kg	
Chlorobenzene	< 5,000	5.0	ug/kg	
Chlorodibromomethane	< 5,000	5.0	ug/kg	
Chloroethane	< 10,000	10.0	ug/kg	
Chloroform	< 5,000	5.0	ug/kg	
Chloromethane	< 10,000	10.0	ug/kg	
1,1-Dichloroethane	< 5,000	5.0	ug/kg	
1,2-Dichloroethane	< 5,000	5.0	ug/kg	
1,1-Dichloroethene	< 5,000	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5,000	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5,000	5.0	ug/kg	
1,2-Dichloropropane	< 5,000	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5,000	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5,000	5.0	ug/kg	
Ethylbenzene	< 5,000	5.0	ug/kg	
2-Hexanone	< 10,000	10.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
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**Sample ID:** AM-WS02-101509  
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Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/20/09				
Methyl-tert-butylether (MTBE)	< 5,000	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10,000	10.0	ug/kg	
Methylene chloride	< 20,000	20.0	ug/kg	
Styrene	< 5,000	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5,000	5.0	ug/kg	
Tetrachloroethene	< 5,000	5.0	ug/kg	
Toluene	< 5,000	5.0	ug/kg	
1,1,1-Trichloroethane	< 5,000	5.0	ug/kg	
1,1,2-Trichloroethane	< 5,000	5.0	ug/kg	
Trichloroethene	< 5,000	5.0	ug/kg	
Vinyl acetate	< 10,000	10.0	ug/kg	
Vinyl chloride	< 10,000	10.0	ug/kg	
Xylene, Total	< 5,000	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09				<b>Preparation Method 3540C</b>
Preparation Date: 10/21/09				
Acenaphthene	< 126,000	330	ug/kg	
Acenaphthylene	< 126,000	330	ug/kg	
Anthracene	< 126,000	330	ug/kg	
Benzidine	< 126,000	330	ug/kg	
Benzo(a)anthracene	< 126,000	330	ug/kg	
Benzo(a)pyrene	< 34,000	90	ug/kg	
Benzo(b)fluoranthene	< 126,000	330	ug/kg	
Benzo(k)fluoranthene	< 126,000	330	ug/kg	
Benzo(ghi)perylene	< 126,000	330	ug/kg	
Benzoic acid	< 126,000	330	ug/kg	
Benzyl alcohol	< 126,000	330	ug/kg	
bis(2-Chloroethoxy)methane	< 126,000	330	ug/kg	
bis(2-Chloroethyl)ether	< 126,000	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 126,000	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 126,000	330	ug/kg	
4-Bromophenyl phenyl ether	< 126,000	330	ug/kg	
Butyl benzyl phthalate	< 126,000	330	ug/kg	
Carbazole	< 126,000	330	ug/kg	
4-Chloroaniline	< 126,000	330	ug/kg	
4-Chloro-3-methylphenol	< 126,000	330	ug/kg	
2-Chloronaphthalene	< 126,000	330	ug/kg	



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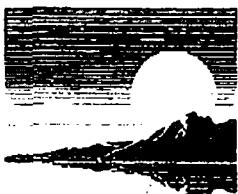
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
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**Sample ID:** AM-WS02-101509  
**Sample No:** 9-4366-002

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Analyte	Method: 8270C	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Preparation Method 3540C</b>			
Analysis Date: 10/22/09		Preparation Date: 10/21/09			
2-Chlorophenol	< 126,000	330		ug/kg	
4-Chlorophenyl phenyl ether	< 126,000	330		ug/kg	
Chrysene	< 126,000	330		ug/kg	
Dibenzo(a,h)anthracene	< 34,000	90		ug/kg	
Dibenzofuran	< 126,000	330		ug/kg	
1,2-Dichlorobenzene	< 126,000	330		ug/kg	
1,3-Dichlorobenzene	< 126,000	330		ug/kg	
1,4-Dichlorobenzene	< 126,000	330		ug/kg	
3,3'-Dichlorobenzidine	< 252,000	660		ug/kg	
2,4-Dichlorophenol	< 126,000	330		ug/kg	
Diethyl phthalate	< 126,000	330		ug/kg	
2,4-Dimethylphenol	< 126,000	330		ug/kg	
Dimethyl phthalate	< 126,000	330		ug/kg	
Di-n-butyl phthalate	< 126,000	330		ug/kg	
4,6-Dinitro-2-methylphenol	< 630,000	1600		ug/kg	
2,4-Dinitrophenol	< 630,000	1600		ug/kg	
2,4-Dinitrotoluene	< 95,000	250		ug/kg	
2,6-Dinitrotoluene	< 99,000	260		ug/kg	
Di-n-octylphthalate	< 126,000	330		ug/kg	
Fluoranthene	< 126,000	330		ug/kg	
Fluorene	< 126,000	330		ug/kg	
Hexachlorobenzene	< 126,000	330		ug/kg	
Hexachlorobutadiene	< 126,000	330		ug/kg	
Hexachlorocyclopentadiene	< 126,000	330		ug/kg	
Hexachloroethane	< 126,000	330		ug/kg	
Indeno(1,2,3-cd)pyrene	< 126,000	330		ug/kg	
Isophorone	< 126,000	330		ug/kg	
2-Methylnaphthalene	< 126,000	330		ug/kg	
2-Methylphenol	< 126,000	330		ug/kg	
3 & 4-Methylphenol.	< 126,000	330		ug/kg	
Naphthalene	< 126,000	330		ug/kg	
2-Nitroaniline	< 630,000	1600		ug/kg	
3-Nitroaniline	< 630,000	1600		ug/kg	
4-Nitroaniline	< 630,000	1600		ug/kg	
Nitrobenzene	< 99,000	260		ug/kg	
2-Nitrophenol	< 630,000	1600		ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS02-101509  
**Sample No:** 9-4366-002

**Date Collected:** 10/15/09  
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**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 10/22/09				
4-Nitrophenol	< 630,000	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 34,000	90	ug/kg	
n-Nitrosodimethylamine	< 126,000	330	ug/kg	
n-Nitrosodiphenylamine	< 126,000	330	ug/kg	
Pentachlorophenol	< 126,000	330	ug/kg	
Phenanthrene	< 126,000	330	ug/kg	
Phenol	< 126,000	330	ug/kg	
Pyrene	< 126,000	330	ug/kg	
Pyridine	< 126,000	330	ug/kg	
1,2,4-Trichlorobenzene	< 126,000	330	ug/kg	
2,4,5-Trichlorophenol	< 126,000	330	ug/kg	
2,4,6-Trichlorophenol	< 126,000	330	ug/kg	

Total Metals	Method: 6010B	Preparation Method 3050B	
Analysis Date: 10/22/09		Preparation Date: 10/19/09	
Aluminum	694	5.0	mg/kg
Antimony	15.4	1.0	mg/kg
Arsenic	4.3	0.2	mg/kg
Barium	276	0.1	mg/kg
Beryllium	0.1	0.1	mg/kg
Cadmium	4.9	0.1	mg/kg
Calcium	16,700	10	mg/kg
Chromium	991	0.1	mg/kg
Cobalt	6.6	0.1	mg/kg
Copper	241	0.1	mg/kg
Iron	176,000	1.0	mg/kg
Lead	101	0.2	mg/kg
Magnesium	2,910	10	mg/kg
Manganese	1,340	0.1	mg/kg
Nickel	455	0.1	mg/kg
Potassium	576	10	mg/kg
Selenium	4.9	0.2	mg/kg
Silver	0.7	0.1	mg/kg
Sodium	19,000	10	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	11.4	1.0	mg/kg
Zinc	2,000	0.5	mg/kg



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**Analytical Report**

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Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010B			Preparation Method 3050B
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Total Metals	Method: 7470A			
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
Polychlorinated biphenyls (PCBs)	Method: 8082			Preparation Method 3540C
Analysis Date: 10/23/09				Preparation Date: 10/21/09
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	< 400	80.0	ug/kg	
Aroclor 1254	< 400	160	ug/kg	
Aroclor 1260	< 400	160	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 13:25

**Sample ID:** AM-WS03-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-003

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.82	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	10.52		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509  
**Sample No:** 9-4366-003

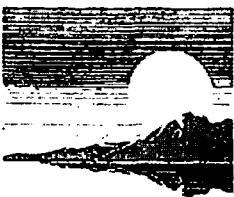
**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>	<b>Method: 6010B</b>				<b>Preparation Method 3010A</b>
Analysis Date:	10/26/09				Preparation Date: 10/20/09
Arsenic		< 0.002	0.002	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		0.017	0.001	mg/L	
Chromium		0.002	0.001	mg/L	
Lead		< 0.002	0.002	mg/L	
Selenium		0.016	0.002	mg/L	
Silver		< 0.001	0.001	mg/L	

<b>TCLP Metals Method 1311</b>	<b>Method: 7470A</b>
Analysis Date:	10/21/09
Mercury	< 0.0005

<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>
Analysis Date:	10/21/09
Acetone	< 10,000
Benzene	< 25.0
Bromodichloromethane	< 500
Bromoform	< 500
Bromomethane	< 1,000
2-Butanone (MEK)	< 10,000
Carbon disulfide	< 500
Carbon tetrachloride	< 500
Chlorobenzene	< 500
Chlorodibromomethane	< 500
Chloroethane	< 1,000
Chloroform	< 500
Chloromethane	< 1,000
1,1-Dichloroethane	< 500
1,2-Dichloroethane	< 500
1,1-Dichloroethene	< 500
cis-1,2-Dichloroethene	< 400
trans-1,2-Dichloroethene	< 500
1,2-Dichloropropane	< 500
cis-1,3-Dichloropropene	< 500
trans-1,3-Dichloropropene	< 500
Ethylbenzene	< 500
2-Hexanone	< 1,000



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509  
**Sample No:** 9-4366-003

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>				<b>Method: 5035A/8260B</b>
Analysis Date: 10/21/09				
Methyl-tert-butylether (MTBE)	< 320	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 1,000	10.0	ug/kg	
Methylene chloride	< 2,000	20.0	ug/kg	
Styrene	< 500	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 500	5.0	ug/kg	
Tetrachloroethene	< 500	5.0	ug/kg	
Toluene	< 500	5.0	ug/kg	
1,1,1-Trichloroethane	< 500	5.0	ug/kg	
1,1,2-Trichloroethane	< 500	5.0	ug/kg	
Trichloroethene	< 500	5.0	ug/kg	
Vinyl acetate	< 1,000	10.0	ug/kg	
Vinyl chloride	< 1,000	10.0	ug/kg	
Xylene, Total	< 500	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C	Preparation Date: 10/21/09
Analysis Date: 10/22/09			
Acenaphthene	< 26,000	330	ug/kg
Acenaphthylene	< 26,000	330	ug/kg
Anthracene	< 26,000	330	ug/kg
Benzidine	< 26,000	330	ug/kg
Benzo(a)anthracene	< 26,000	330	ug/kg
Benzo(a)pyrene	< 7,100	90	ug/kg
Benzo(b)fluoranthene	< 26,000	330	ug/kg
Benzo(k)fluoranthene	< 26,000	330	ug/kg
Benzo(ghi)perylene	< 26,000	330	ug/kg
Benzoic acid	< 26,000	330	ug/kg
Benzyl alcohol	< 26,000	330	ug/kg
bis(2-Chloroethoxy)methane	< 26,000	330	ug/kg
bis(2-Chloroethyl)ether	< 26,000	330	ug/kg
bis(2-Chloroisopropyl)ether	< 26,000	330	ug/kg
bis(2-Ethylhexyl)phthalate	31,800	330	ug/kg
4-Bromophenyl phenyl ether	< 26,000	330	ug/kg
Butyl benzyl phthalate	< 26,000	330	ug/kg
Carbazole	< 26,000	330	ug/kg
4-Chloroaniline	< 26,000	330	ug/kg
4-Chloro-3-methylphenol	< 26,000	330	ug/kg
2-Chloronaphthalene	< 26,000	330	ug/kg



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## Analytical Report

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509  
**Sample No:** 9-4366-003

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method: 8270C	Result	R.L.	Units	Flags
Semi-Volatile Compounds					Preparation Method 3540C
Analysis Date: 10/22/09					Preparation Date: 10/21/09
2-Chlorophenol	< 26,000	330		ug/kg	
4-Chlorophenyl phenyl ether	< 26,000	330		ug/kg	
Chrysene	< 26,000	330		ug/kg	
Dibenzo(a,h)anthracene	< 7,100	90		ug/kg	
Dibenzofuran	< 26,000	330		ug/kg	
1,2-Dichlorobenzene	< 26,000	330		ug/kg	
1,3-Dichlorobenzene	< 26,000	330		ug/kg	
1,4-Dichlorobenzene	< 26,000	330		ug/kg	
3,3'-Dichlorobenzidine	< 52,000	660		ug/kg	
2,4-Dichlorophenol	< 26,000	330		ug/kg	
Diethyl phthalate	< 26,000	330		ug/kg	
2,4-Dimethylphenol	< 26,000	330		ug/kg	
Dimethyl phthalate	< 26,000	330		ug/kg	
Di-n-butyl phthalate	< 26,000	330		ug/kg	
4,6-Dinitro-2-methylphenol	< 130,000	1600		ug/kg	
2,4-Dinitrophenol	< 130,000	1600		ug/kg	
2,4-Dinitrotoluene	< 19,700	250		ug/kg	
2,6-Dinitrotoluene	< 20,500	260		ug/kg	
Di-n-octylphthalate	< 26,000	330		ug/kg	
Fluoranthene	< 26,000	330		ug/kg	
Fluorene	< 26,000	330		ug/kg	
Hexachlorobenzene	< 26,000	330		ug/kg	
Hexachlorobutadiene	< 26,000	330		ug/kg	
Hexachlorocyclopentadiene	< 26,000	330		ug/kg	
Hexachloroethane	< 26,000	330		ug/kg	
Indeno(1,2,3-cd)pyrene	< 26,000	330		ug/kg	
Isophorone	< 26,000	330		ug/kg	
2-Methylnaphthalene	< 26,000	330		ug/kg	
2-Methylphenol	< 26,000	330		ug/kg	
3 & 4-Methylphenol	< 26,000	330		ug/kg	
Naphthalene	< 26,000	330		ug/kg	
2-Nitroaniline	< 130,000	1600		ug/kg	
3-Nitroaniline	< 130,000	1600		ug/kg	
4-Nitroaniline	< 130,000	1600		ug/kg	
Nitrobenzene	< 20,500	260		ug/kg	
2-Nitrophenol	< 130,000	1600		ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509  
**Sample No:** 9-4366-003

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

<b>Analyte</b>	<b>Result</b>	<b>R.L.</b>	<b>Units</b>	<b>Flags</b>
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 10/22/09			Preparation Date: 10/21/09	
4-Nitrophenol	< 130,000	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 7,100	90	ug/kg	
n-Nitrosodimethylamine	< 26,000	330	ug/kg	
n-Nitrosodiphenylamine	< 26,000	330	ug/kg	
Pentachlorophenol	< 26,000	330	ug/kg	
Phenanthrene	< 26,000	330	ug/kg	
Phenol	< 26,000	330	ug/kg	
Pyrene	< 26,000	330	ug/kg	
Pyridine	< 26,000	330	ug/kg	
1,2,4-Trichlorobenzene	< 26,000	330	ug/kg	
2,4,5-Trichlorophenol	< 26,000	330	ug/kg	
2,4,6-Trichlorophenol	< 26,000	330	ug/kg	
<b>Total Metals</b>	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b>	
Analysis Date: 10/22/09			Preparation Date: 10/19/09	
Aluminum	892	5.0	mg/kg	
Antimony	10.6	1.0	mg/kg	
Arsenic	8.6	0.2	mg/kg	
Barium	381	0.1	mg/kg	
Beryllium	0.1	0.1	mg/kg	
Cadmium	6.2	0.1	mg/kg	
Calcium	13,100	10	mg/kg	
Chromium	1,240	0.1	mg/kg	
Cobalt	9.1	0.1	mg/kg	
Copper	400	0.1	mg/kg	
Iron	231,000	1.0	mg/kg	
Lead	134	0.2	mg/kg	
Magnesium	4,150	10	mg/kg	
Manganese	1,550	0.1	mg/kg	
Nickel	368	0.1	mg/kg	
Potassium	490	10	mg/kg	
Selenium	9.6	0.2	mg/kg	
Silver	0.8	0.1	mg/kg	
Sodium	49,000	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.8	1.0	mg/kg	
Zinc	4,000	0.5	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509  
**Sample No:** 9-4366-003

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010B		Preparation Method 3050B	
Analysis Date: 10/22/09			Preparation Date: 10/19/09	
Total Metals	Method: 7470A			
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
Polychlorinated biphenyls (PCBs)	Method: 8082		Preparation Method 3540C	
Analysis Date: 10/22/09			Preparation Date: 10/19/09	
Aroclor 1016	< 200	80.0	ug/kg	
Aroclor 1221	< 200	80.0	ug/kg	
Aroclor 1232	< 200	80.0	ug/kg	
Aroclor 1242	< 200	80.0	ug/kg	
Aroclor 1248	< 200	80.0	ug/kg	
Aroclor 1254	< 200	160	ug/kg	
Aroclor 1260	< 200	160	ug/kg	



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### Analytical Report

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 13:30

**Sample ID:** AM-WS04-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-004

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.82	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	10.75		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS04-101509  
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Analyte	Method:	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>	<b>Method: 6010B</b>				<b>Preparation Method 3010A</b>
Analysis Date:	10/26/09				Preparation Date: 10/20/09
Arsenic		< 0.002	0.002	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		0.003	0.001	mg/L	
Chromium		0.041	0.001	mg/L	
Lead		0.005	0.002	mg/L	
Selenium		< 0.002	0.002	mg/L	
Silver		0.002	0.001	mg/L	

<b>TCLP Metals Method 1311</b>	<b>Method: 7470A</b>
Analysis Date:	10/21/09
Mercury	< 0.0005

<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>
Analysis Date:	10/21/09
Acetone	32,100
Benzene	< 25.0
Bromodichloromethane	< 500
Bromoform	< 500
Bromomethane	< 1,000
2-Butanone (MEK)	33,100
Carbon disulfide	< 500
Carbon tetrachloride	< 500
Chlorobenzene	< 500
Chlorodibromomethane	< 500
Chloroethane	< 1,000
Chloroform	< 500
Chloromethane	< 1,000
1,1-Dichloroethane	< 500
1,2-Dichloroethane	< 500
1,1-Dichloroethene	< 500
cis-1,2-Dichloroethene	< 400
trans-1,2-Dichloroethene	< 500
1,2-Dichloropropane	< 500
cis-1,3-Dichloropropene	< 500
trans-1,3-Dichloropropene	< 500
Ethylbenzene	< 500
2-Hexanone	< 1,000



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**Analytical Report**

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**Project ID:** Anchor Metals SA  
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Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>				<b>Method: 5035A/8260B</b>
Analysis Date: 10/21/09				
Methyl-tert-butylether (MTBE)	< 320	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 1,000	10.0	ug/kg	
Methylene chloride	< 2,000	20.0	ug/kg	
Styrene	< 500	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 500	5.0	ug/kg	
Tetrachloroethene	< 500	5.0	ug/kg	
Toluene	< 500	5.0	ug/kg	
1,1,1-Trichloroethane	< 500	5.0	ug/kg	
1,1,2-Trichloroethane	< 500	5.0	ug/kg	
Trichloroethene	< 500	5.0	ug/kg	
Vinyl acetate	< 1,000	10.0	ug/kg	
Vinyl chloride	< 1,000	10.0	ug/kg	
Xylene, Total	< 500	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C	Preparation Date: 10/21/09
Analysis Date: 10/22/09			
Acenaphthene	< 153,000	330	ug/kg
Acenaphthylene	< 153,000	330	ug/kg
Anthracene	< 153,000	330	ug/kg
Benzidine	< 153,000	330	ug/kg
Benzo(a)anthracene	< 153,000	330	ug/kg
Benzo(a)pyrene	< 41,700	90	ug/kg
Benzo(b)fluoranthene	< 153,000	330	ug/kg
Benzo(k)fluoranthene	< 153,000	330	ug/kg
Benzo(ghi)perylene	< 153,000	330	ug/kg
Benzoic acid	< 153,000	330	ug/kg
Benzyl alcohol	< 153,000	330	ug/kg
bis(2-Chloroethoxy)methane	< 153,000	330	ug/kg
bis(2-Chloroethyl)ether	< 153,000	330	ug/kg
bis(2-Chloroisopropyl)ether	< 153,000	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 153,000	330	ug/kg
4-Bromophenyl phenyl ether	< 153,000	330	ug/kg
Butyl benzyl phthalate	< 153,000	330	ug/kg
Carbazole	< 153,000	330	ug/kg
4-Chloroaniline	< 153,000	330	ug/kg
4-Chloro-3-methylphenol	< 153,000	330	ug/kg
2-Chloronaphthalene	< 153,000	330	ug/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS04-101509  
**Sample No:** 9-4366-004

**Date Collected:** 10/15/09  
**Time Collected:** 13:30  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

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Analyte	Method: 8270C	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Preparation Method 3540C</b>			
Analysis Date: 10/22/09		Preparation Date: 10/21/09			
2-Chlorophenol		< 153,000	330	ug/kg	
4-Chlorophenyl phenyl ether		< 153,000	330	ug/kg	
Chrysene		< 153,000	330	ug/kg	
Dibenzo(a,h)anthracene		< 41,700	90	ug/kg	
Dibenzofuran		< 153,000	330	ug/kg	
1,2-Dichlorobenzene		< 153,000	330	ug/kg	
1,3-Dichlorobenzene		< 153,000	330	ug/kg	
1,4-Dichlorobenzene		< 153,000	330	ug/kg	
3,3'-Dichlorobenzidine		< 306,000	660	ug/kg	
2,4-Dichlorophenol		< 153,000	330	ug/kg	
Diethyl phthalate		< 153,000	330	ug/kg	
2,4-Dimethylphenol		< 153,000	330	ug/kg	
Dimethyl phthalate		< 153,000	330	ug/kg	
Di-n-butyl phthalate		< 153,000	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 765,000	1600	ug/kg	
2,4-Dinitrophenol		< 765,000	1600	ug/kg	
2,4-Dinitrotoluene		< 116,000	250	ug/kg	
2,6-Dinitrotoluene		< 120,000	260	ug/kg	
Di-n-octylphthalate		< 153,000	330	ug/kg	
Fluoranthene		< 153,000	330	ug/kg	
Fluorene		< 153,000	330	ug/kg	
Hexachlorobenzene		< 153,000	330	ug/kg	
Hexachlorobutadiene		< 153,000	330	ug/kg	
Hexachlorocyclopentadiene		< 153,000	330	ug/kg	
Hexachloroethane		< 153,000	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 153,000	330	ug/kg	
Isophorone		< 153,000	330	ug/kg	
2-Methylnaphthalene		< 153,000	330	ug/kg	
2-Methylphenol		< 153,000	330	ug/kg	
3 & 4-Methylphenol		< 153,000	330	ug/kg	
Naphthalene		< 153,000	330	ug/kg	
2-Nitroaniline		< 765,000	1600	ug/kg	
3-Nitroaniline		< 765,000	1600	ug/kg	
4-Nitroaniline		< 765,000	1600	ug/kg	
Nitrobenzene		< 120,000	260	ug/kg	
2-Nitrophenol		< 765,000	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS04-101509  
**Sample No:** 9-4366-004

**Date Collected:** 10/15/09  
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Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
			Preparation Date: 10/21/09	
4-Nitrophenol	< 765,000	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 41,700	90	ug/kg	
n-Nitrosodimethylamine	< 153,000	330	ug/kg	
n-Nitrosodiphenylamine	< 153,000	330	ug/kg	
Pentachlorophenol	< 153,000	330	ug/kg	
Phenanthrene	< 153,000	330	ug/kg	
Phenol	< 153,000	330	ug/kg	
Pyrene	< 153,000	330	ug/kg	
Pyridine	< 153,000	330	ug/kg	
1,2,4-Trichlorobenzene	< 153,000	330	ug/kg	
2,4,5-Trichlorophenol	< 153,000	330	ug/kg	
2,4,6-Trichlorophenol	< 153,000	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3050B</b>	
Preparation Date: 10/19/09				
Aluminum	770	5.0	mg/kg	
Antimony	27.3	1.0	mg/kg	
Arsenic	1.3	0.2	mg/kg	
Barium	186	0.1	mg/kg	
Beryllium	0.1	0.1	mg/kg	
Cadmium	13.1	0.1	mg/kg	
Calcium	12,100	10	mg/kg	
Chromium	1,880	0.1	mg/kg	
Cobalt	7.4	0.1	mg/kg	
Copper	263	0.1	mg/kg	
Iron	257,000	1.0	mg/kg	
Lead	158	0.2	mg/kg	
Magnesium	2,780	10	mg/kg	
Manganese	1,750	0.1	mg/kg	
Nickel	715	0.1	mg/kg	
Potassium	593	10	mg/kg	
Selenium	9.9	0.2	mg/kg	
Silver	0.9	0.1	mg/kg	
Sodium	28,000	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	11.6	1.0	mg/kg	
Zinc	5,000	0.5	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS04-101509  
**Sample No:** 9-4366-004

**Date Collected:** 10/15/09  
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**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010B			Preparation Method 3050B
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Total Metals	Method: 7470A			
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
Polychlorinated biphenyls (PCBs)	Method: 8082			Preparation Method 3540C
Analysis Date: 10/23/09				Preparation Date: 10/19/09
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	< 400	80.0	ug/kg	
Aroclor 1254	< 400	160	ug/kg	
Aroclor 1260	< 400	160	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 13:40

**Sample ID:** AM-WS05-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-005

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.90	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	10.10		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS05-101509  
**Sample No:** 9-4366-005

**Date Collected:** 10/15/09  
**Time Collected:** 13:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>	<b>Method: 6010B</b>				<b>Preparation Method 3010A</b>
Analysis Date: 10/22/09					Preparation Date: 10/20/09
Arsenic		< 0.002	0.002	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.001	0.001	mg/L	
Chromium		< 0.001	0.001	mg/L	
Lead		< 0.002	0.002	mg/L	
Selenium		< 0.002	0.002	mg/L	
Silver		< 0.001	0.001	mg/L	
<b>TCLP Metals Method 1311</b>	<b>Method: 7470A</b>				
Analysis Date: 10/21/09					
Mercury		< 0.0005	0.0005	mg/L	
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>				
Analysis Date: 10/21/09					
Acetone		33,700	100	ug/kg	
Benzene		< 25.0	5.0	ug/kg	
Bromodichloromethane		< 500	5.0	ug/kg	
Bromoform		< 500	5.0	ug/kg	
Bromomethane		< 1,000	10.0	ug/kg	
2-Butanone (MEK)		36,900	100	ug/kg	
Carbon disulfide		< 500	5.0	ug/kg	
Carbon tetrachloride		< 500	5.0	ug/kg	
Chlorobenzene		< 500	5.0	ug/kg	
Chlorodibromomethane		< 500	5.0	ug/kg	
Chloroethane		< 1,000	10.0	ug/kg	
Chloroform		< 500	5.0	ug/kg	
Chloromethane		< 1,000	10.0	ug/kg	
1,1-Dichloroethane		< 500	5.0	ug/kg	
1,2-Dichloroethane		< 500	5.0	ug/kg	
1,1-Dichloroethene		< 500	5.0	ug/kg	
cis-1,2-Dichloroethene		< 400	5.0	ug/kg	
trans-1,2-Dichloroethene		< 500	5.0	ug/kg	
1,2-Dichloropropane		< 500	5.0	ug/kg	
cis-1,3-Dichloropropene		< 500	5.0	ug/kg	
trans-1,3-Dichloropropene		< 500	5.0	ug/kg	
Ethylbenzene		< 500	5.0	ug/kg	
2-Hexanone		< 1,000	10.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS05-101509  
**Sample No:** 9-4366-005

**Date Collected:** 10/15/09  
**Time Collected:** 13:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/21/09				
Methyl-tert-butylether (MTBE)	< 320	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 1,000	10.0	ug/kg	
Methylene chloride	< 2,000	20.0	ug/kg	
Styrene	< 500	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 500	5.0	ug/kg	
Tetrachloroethene	< 500	5.0	ug/kg	
Toluene	< 500	5.0	ug/kg	
1,1,1-Trichloroethane	< 500	5.0	ug/kg	
1,1,2-Trichloroethane	< 500	5.0	ug/kg	
Trichloroethene	< 500	5.0	ug/kg	
Vinyl acetate	< 1,000	10.0	ug/kg	
Vinyl chloride	< 1,000	10.0	ug/kg	
Xylene, Total	< 500	5.0	ug/kg	

**Semi-Volatile Compounds**      **Method: 8270C**      **Preparation Method 3540C**  
Analysis Date: 10/22/09      Preparation Date: 10/21/09

Acenaphthene	< 26,000	330	ug/kg
Acenaphthylene	< 26,000	330	ug/kg
Anthracene	< 26,000	330	ug/kg
Benzidine	< 26,000	330	ug/kg
Benzo(a)anthracene	< 26,000	330	ug/kg
Benzo(a)pyrene	< 7,100	90	ug/kg
Benzo(b)fluoranthene	< 26,000	330	ug/kg
Benzo(k)fluoranthene	< 26,000	330	ug/kg
Benzo(ghi)perylene	< 26,000	330	ug/kg
Benzoic acid	< 26,000	330	ug/kg
Benzyl alcohol	< 26,000	330	ug/kg
bis(2-Chloroethoxy)methane	< 26,000	330	ug/kg
bis(2-Chloroethyl)ether	< 26,000	330	ug/kg
bis(2-Chloroisopropyl)ether	< 26,000	330	ug/kg
bis(2-Ethylhexyl)phthalate	92,100	330	ug/kg
4-Bromophenyl phenyl ether	< 26,000	330	ug/kg
Butyl benzyl phthalate	< 26,000	330	ug/kg
Carbazole	< 26,000	330	ug/kg
4-Chloroaniline	< 26,000	330	ug/kg
4-Chloro-3-methylphenol	< 26,000	330	ug/kg
2-Chloronaphthalene	< 26,000	330	ug/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS05-101509  
**Sample No:** 9-4366-005

**Date Collected:** 10/15/09  
**Time Collected:** 13:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
Semi-Volatile Compounds	8270C			Preparation Method 3540C	
Analysis Date:	10/22/09			Preparation Date:	10/21/09
2-Chlorophenol		< 26,000	330	ug/kg	
4-Chlorophenyl phenyl ether		< 26,000	330	ug/kg	
Chrysene		< 26,000	330	ug/kg	
Dibenzo(a,h)anthracene		< 7,100	90	ug/kg	
Dibenzofuran		< 26,000	330	ug/kg	
1,2-Dichlorobenzene		< 26,000	330	ug/kg	
1,3-Dichlorobenzene		< 26,000	330	ug/kg	
1,4-Dichlorobenzene		< 26,000	330	ug/kg	
3,3'-Dichlorobenzidine		< 52,000	660	ug/kg	
2,4-Dichlorophenol		< 26,000	330	ug/kg	
Diethyl phthalate		< 26,000	330	ug/kg	
2,4-Dimethylphenol		< 26,000	330	ug/kg	
Dimethyl phthalate		< 26,000	330	ug/kg	
Di-n-butyl phthalate		< 26,000	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 130,000	1600	ug/kg	
2,4-Dinitrophenol		< 130,000	1600	ug/kg	
2,4-Dinitrotoluene		< 19,700	250	ug/kg	
2,6-Dinitrotoluene		< 20,500	260	ug/kg	
Di-n-octylphthalate		< 26,000	330	ug/kg	
Fluoranthene		< 26,000	330	ug/kg	
Fluorene		< 26,000	330	ug/kg	
Hexachlorobenzene		< 26,000	330	ug/kg	
Hexachlorobutadiene		< 26,000	330	ug/kg	
Hexachlorocyclopentadiene		< 26,000	330	ug/kg	
Hexachloroethane		< 26,000	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 26,000	330	ug/kg	
Isophorone		< 26,000	330	ug/kg	
2-Methylnaphthalene		< 26,000	330	ug/kg	
2-Methylphenol		< 26,000	330	ug/kg	
3 & 4-Methylphenol		< 26,000	330	ug/kg	
Naphthalene		< 26,000	330	ug/kg	
2-Nitroaniline		< 130,000	1600	ug/kg	
3-Nitroaniline		< 130,000	1600	ug/kg	
4-Nitroaniline		< 130,000	1600	ug/kg	
Nitrobenzene		< 20,500	260	ug/kg	
2-Nitrophenol		< 130,000	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS05-101509  
**Sample No:** 9-4366-005

**Date Collected:** 10/15/09  
**Time Collected:** 13:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
			Preparation Date: 10/21/09	
4-Nitrophenol	< 130,000	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 7,100	90	ug/kg	
n-Nitrosodimethylamine	< 26,000	330	ug/kg	
n-Nitrosodiphenylamine	< 26,000	330	ug/kg	
Pentachlorophenol	< 26,000	330	ug/kg	
Phenanthrene	< 26,000	330	ug/kg	
Phenol	< 26,000	330	ug/kg	
Pyrene	< 26,000	330	ug/kg	
Pyridine	< 26,000	330	ug/kg	
1,2,4-Trichlorobenzene	< 26,000	330	ug/kg	
2,4,5-Trichlorophenol	< 26,000	330	ug/kg	
2,4,6-Trichlorophenol	< 26,000	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3050B</b>	
Preparation Date: 10/19/09				
Aluminum	749	5.0	mg/kg	
Antimony	15.6	1.0	mg/kg	
Arsenic	8.4	0.2	mg/kg	
Barium	201	0.1	mg/kg	
Beryllium	0.1	0.1	mg/kg	
Cadmium	5.5	0.1	mg/kg	
Calcium	14,700	10	mg/kg	
Chromium	919	0.1	mg/kg	
Cobalt	8.4	0.1	mg/kg	
Copper	251	0.1	mg/kg	
Iron	212,000	1.0	mg/kg	
Lead	111	0.2	mg/kg	
Magnesium	4,890	10	mg/kg	
Manganese	1,810	0.1	mg/kg	
Nickel	472	0.1	mg/kg	
Potassium	868	10	mg/kg	
Selenium	15.2	0.2	mg/kg	
Silver	0.8	0.1	mg/kg	
Sodium	18,000	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.4	1.0	mg/kg	
Zinc	700	0.5	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS05-101509  
**Sample No:** 9-4366-005

**Date Collected:** 10/15/09  
**Time Collected:** 13:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010B			Preparation Method 3050B
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Total Metals	Method: 7470A			
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
Polychlorinated biphenyls (PCBs)	Method: 8082			Preparation Method 3540C
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Aroclor 1016	< 200	80.0	ug/kg	
Aroclor 1221	< 200	80.0	ug/kg	
Aroclor 1232	< 200	80.0	ug/kg	
Aroclor 1242	< 200	80.0	ug/kg	
Aroclor 1248	< 200	80.0	ug/kg	
Aroclor 1254	< 200	160	ug/kg	
Aroclor 1260	< 200	160	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 13:50

**Sample ID:** AM-WS06-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-006

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.65	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	9.96		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS06-101509  
**Sample No:** 9-4366-006

**Date Collected:** 10/15/09  
**Time Collected:** 13:50  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3010A</b>	
Arsenic	< 0.002	0.002	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	0.007	0.001	mg/L	
Chromium	0.003	0.001	mg/L	
Lead	< 0.002	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	
Silver	< 0.001	0.001	mg/L	

<b>TCLP Metals Method 1311</b>	<b>Method: 7470A</b>
Analysis Date: 10/21/09	
Mercury	< 0.0005

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/21/09				
Acetone	< 10,000	100	ug/kg	
Benzene	< 25.0	5.0	ug/kg	
Bromodichloromethane	< 500	5.0	ug/kg	
Bromoform	< 500	5.0	ug/kg	
Bromomethane	< 1,000	10.0	ug/kg	
2-Butanone (MEK)	< 10,000	100	ug/kg	
Carbon disulfide	< 500	5.0	ug/kg	
Carbon tetrachloride	< 500	5.0	ug/kg	
Chlorobenzene	< 500	5.0	ug/kg	
Chlorodibromomethane	< 500	5.0	ug/kg	
Chloroethane	< 1,000	10.0	ug/kg	
Chloroform	< 500	5.0	ug/kg	
Chloromethane	< 1,000	10.0	ug/kg	
1,1-Dichloroethane	< 500	5.0	ug/kg	
1,2-Dichloroethane	< 500	5.0	ug/kg	
1,1-Dichloroethene	< 500	5.0	ug/kg	
cis-1,2-Dichloroethene	< 400	5.0	ug/kg	
trans-1,2-Dichloroethene	< 500	5.0	ug/kg	
1,2-Dichloropropane	< 500	5.0	ug/kg	
cis-1,3-Dichloropropene	< 500	5.0	ug/kg	
trans-1,3-Dichloropropene	< 500	5.0	ug/kg	
Ethylbenzene	< 500	5.0	ug/kg	
2-Hexanone	< 1,000	10.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS06-101509  
**Sample No:** 9-4366-006

**Date Collected:** 10/15/09  
**Time Collected:** 13:50  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/21/09				
Methyl-tert-butylether (MTBE)	< 320	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 1,000	10.0	ug/kg	
Methylene chloride	< 2,000	20.0	ug/kg	
Styrene	< 500	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 500	5.0	ug/kg	
Tetrachloroethene	< 500	5.0	ug/kg	
Toluene	< 500	5.0	ug/kg	
1,1,1-Trichloroethane	< 500	5.0	ug/kg	
1,1,2-Trichloroethane	< 500	5.0	ug/kg	
Trichloroethene	< 500	5.0	ug/kg	
Vinyl acetate	< 1,000	10.0	ug/kg	
Vinyl chloride	< 1,000	10.0	ug/kg	
Xylene, Total	< 500	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C	Preparation Date: 10/21/09
Acenaphthene	< 2,900	330	ug/kg
Acenaphthylene	< 2,900	330	ug/kg
Anthracene	< 2,900	330	ug/kg
Benzidine	< 2,900	330	ug/kg
Benzo(a)anthracene	< 2,900	330	ug/kg
Benzo(a)pyrene	< 790	90	ug/kg
Benzo(b)fluoranthene	< 2,900	330	ug/kg
Benzo(k)fluoranthene	< 2,900	330	ug/kg
Benzo(ghi)perylene	< 2,900	330	ug/kg
Benzoic acid	< 2,900	330	ug/kg
Benzyl alcohol	< 2,900	330	ug/kg
bis(2-Chloroethoxy)methane	< 2,900	330	ug/kg
bis(2-Chloroethyl)ether	< 2,900	330	ug/kg
bis(2-Chloroisopropyl)ether	< 2,900	330	ug/kg
bis(2-Ethylhexyl)phthalate	10,100	330	ug/kg
4-Bromophenyl phenyl ether	< 2,900	330	ug/kg
Butyl benzyl phthalate	< 2,900	330	ug/kg
Carbazole	< 2,900	330	ug/kg
4-Chloroaniline	< 2,900	330	ug/kg
4-Chloro-3-methylphenol	< 2,900	330	ug/kg
2-Chloronaphthalene	< 2,900	330	ug/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS06-101509  
**Sample No:** 9-4366-006

**Date Collected:** 10/15/09  
**Time Collected:** 13:50  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method: 8270C	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>					<b>Preparation Method 3540C</b>
Analysis Date:	10/21/09				Preparation Date: 10/21/09
2-Chlorophenol		< 2,900	330	ug/kg	
4-Chlorophenyl phenyl ether		< 2,900	330	ug/kg	
Chrysene		< 2,900	330	ug/kg	
Dibenzo(a,h)anthracene		< 790	90	ug/kg	
Dibenzofuran		< 2,900	330	ug/kg	
1,2-Dichlorobenzene		< 2,900	330	ug/kg	
1,3-Dichlorobenzene		< 2,900	330	ug/kg	
1,4-Dichlorobenzene		< 2,900	330	ug/kg	
3,3'-Dichlorobenzidine		< 5,800	660	ug/kg	
2,4-Dichlorophenol		< 2,900	330	ug/kg	
Diethyl phthalate		< 2,900	330	ug/kg	
2,4-Dimethylphenol		< 2,900	330	ug/kg	
Dimethyl phthalate		< 2,900	330	ug/kg	
Di-n-butyl phthalate		< 2,900	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 14,500	1600	ug/kg	
2,4-Dinitrophenol		< 14,500	1600	ug/kg	
2,4-Dinitrotoluene		< 2,200	250	ug/kg	
2,6-Dinitrotoluene		< 2,280	260	ug/kg	
Di-n-octylphthalate		< 2,900	330	ug/kg	
Fluoranthene		< 2,900	330	ug/kg	
Fluorene		< 2,900	330	ug/kg	
Hexachlorobenzene		< 2,900	330	ug/kg	
Hexachlorobutadiene		< 2,900	330	ug/kg	
Hexachlorocyclopentadiene		< 2,900	330	ug/kg	
Hexachloroethane		< 2,900	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 2,900	330	ug/kg	
Ishophorone		< 2,900	330	ug/kg	
2-Methylnaphthalene		< 2,900	330	ug/kg	
2-Methylphenol		< 2,900	330	ug/kg	
3 & 4-Methylphenol		< 2,900	330	ug/kg	
Naphthalene		< 2,900	330	ug/kg	
2-Nitroaniline		< 14,500	1600	ug/kg	
3-Nitroaniline		< 14,500	1600	ug/kg	
4-Nitroaniline		< 14,500	1600	ug/kg	
Nitrobenzene		< 2,280	260	ug/kg	
2-Nitrophenol		< 14,500	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS06-101509  
**Sample No:** 9-4366-006

**Date Collected:** 10/15/09  
**Time Collected:** 13:50  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
Semi-Volatile Compounds	8270C			Preparation Method 3540C	
Analysis Date:	10/21/09			Preparation Date:	10/21/09
4-Nitrophenol		< 14,500	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 2,900	90	ug/kg	
n-Nitrosodimethylamine		< 2,900	330	ug/kg	
n-Nitrosodiphenylamine		< 2,900	330	ug/kg	
Pentachlorophenol		< 2,900	330	ug/kg	
Phenanthrene		< 2,900	330	ug/kg	
Phenol		< 2,900	330	ug/kg	
Pyrene		< 2,900	330	ug/kg	
Pyridine		< 2,900	330	ug/kg	
1,2,4-Trichlorobenzene		< 2,900	330	ug/kg	
2,4,5-Trichlorophenol		< 2,900	330	ug/kg	
2,4,6-Trichlorophenol		< 2,900	330	ug/kg	

Total Metals	Method:	Result	Preparation Method	3050B
Analysis Date:	10/22/09		Preparation Date:	10/19/09
Aluminum		236	5.0	mg/kg
Antimony		17.8	1.0	mg/kg
Arsenic		6.8	0.2	mg/kg
Barium		174	0.1	mg/kg
Beryllium		< 0.1	0.1	mg/kg
Cadmium		3.2	0.1	mg/kg
Calcium		4,010	10	mg/kg
Chromium		1,510	0.1	mg/kg
Cobalt		5.8	0.1	mg/kg
Copper		175	0.1	mg/kg
Iron		208,000	1.0	mg/kg
Lead		95.0	0.2	mg/kg
Magnesium		1,860	10	mg/kg
Manganese		1,180	0.1	mg/kg
Nickel		713	0.1	mg/kg
Potassium		325	10	mg/kg
Selenium		9.6	0.2	mg/kg
Silver		0.5	0.1	mg/kg
Sodium		18,000	10	mg/kg
Thallium		< 1.0	1.0	mg/kg
Vanadium		15.5	1.0	mg/kg
Zinc		700	0.5	mg/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS06-101509  
**Sample No:** 9-4366-006

**Date Collected:** 10/15/09  
**Time Collected:** 13:50  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010B			Preparation Method 3050B
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Total Metals	Method: 7470A			
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
Polychlorinated biphenyls (PCBs)	Method: 8082			Preparation Method 3540C
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Aroclor 1016	< 200	80.0	ug/kg	
Aroclor 1221	< 200	80.0	ug/kg	
Aroclor 1232	< 200	80.0	ug/kg	
Aroclor 1242	< 200	80.0	ug/kg	
Aroclor 1248	< 200	80.0	ug/kg	
Aroclor 1254	< 200	160	ug/kg	
Aroclor 1260	< 200	160	ug/kg	



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### **Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS07-101509  
**Sample No:** 9-4366-007

**Date Collected:** 10/15/09  
**Time Collected:** 14:00  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	< 0.10	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	12.99		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS07-101509  
**Sample No:** 9-4366-007

**Date Collected:** 10/15/09  
**Time Collected:** 14:00  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010B</b>		
Analysis Date: 10/26/09			<b>Preparation Method 3010A</b>	
Arsenic	0.020	0.002	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.001	0.001	mg/L	
Chromium	0.002	0.001	mg/L	
Lead	< 0.002	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	
Silver	< 0.001	0.001	mg/L	
<b>TCLP Metals Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 10/21/09				
Mercury	< 0.0005	0.0005	mg/L	
<b>Total Metals</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3050B</b>	
Preparation Date: 10/19/09				
Aluminum	37.4	5.0	mg/kg	
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	0.2	mg/kg	
Barium	0.3	0.1	mg/kg	
Beryllium	< 0.1	0.1	mg/kg	
Cadmium	< 0.1	0.1	mg/kg	
Calcium	167	10	mg/kg	
Chromium	7.3	0.1	mg/kg	
Cobalt	0.4	0.1	mg/kg	
Copper	4.0	0.1	mg/kg	
Iron	447	1.0	mg/kg	
Lead	6.5	0.2	mg/kg	
Magnesium	21	10	mg/kg	
Manganese	3.5	0.1	mg/kg	
Nickel	1.2	0.1	mg/kg	
Potassium	1,050	10	mg/kg	
Selenium	< 0.2	0.2	mg/kg	
Silver	< 0.1	0.1	mg/kg	
Sodium	198,000	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	1.7	1.0	mg/kg	
Zinc	89.3	0.5	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS07-101509  
**Sample No:** 9-4366-007

**Date Collected:** 10/15/09  
**Time Collected:** 14:00  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>		<b>Method: 7470A</b>		
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b>		<b>Method: 8082</b>		
Analysis Date: 10/23/09				<b>Preparation Method 3540C</b>
Preparation Date: 10/19/09				
Aroclor 1016	< 500	80.0	ug/kg	
Aroclor 1221	< 500	80.0	ug/kg	
Aroclor 1232	< 500	80.0	ug/kg	
Aroclor 1242	< 500	80.0	ug/kg	
Aroclor 1248	< 500	80.0	ug/kg	
Aroclor 1254	< 500	160	ug/kg	
Aroclor 1260	< 500	160	ug/kg	



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### Analytical Report

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS08-101509  
**Sample No:** 9-4366-008

**Date Collected:** 10/15/09  
**Time Collected:** 13:55  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	5.87	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	11.00		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS08-101509  
**Sample No:** 9-4366-008

**Date Collected:** 10/15/09  
**Time Collected:** 13:55  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/21/09				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS08-101509  
**Sample No:** 9-4366-008

**Date Collected:** 10/15/09  
**Time Collected:** 13:55  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS08-101509  
**Sample No:** 9-4366-008

**Date Collected:** 10/15/09  
**Time Collected:** 13:55  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3050B</b>	
Aluminum	5.2	5.0	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS08-101509  
**Sample No:** 9-4366-008

**Date Collected:** 10/15/09  
**Time Collected:** 13:55  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b>
Analysis Date:	10/22/09			Preparation Date: 10/19/09
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 0.2	0.2	mg/kg	
Barium	0.3	0.1	mg/kg	
Beryllium	< 0.1	0.1	mg/kg	
Cadmium	< 0.1	0.1	mg/kg	
Calcium	107	10	mg/kg	
Chromium	2.1	0.1	mg/kg	
Cobalt	< 0.1	0.1	mg/kg	
Copper	0.9	0.1	mg/kg	
Iron	246	1.0	mg/kg	
Lead	0.3	0.2	mg/kg	
Magnesium	23	10	mg/kg	
Manganese	2.2	0.1	mg/kg	
Nickel	1.8	0.1	mg/kg	
Potassium	581	10	mg/kg	
Selenium	< 0.2	0.2	mg/kg	
Silver	< 0.1	0.1	mg/kg	
Sodium	56,700	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	< 1.0	1.0	mg/kg	
Zinc	18.3	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/20/09			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>			<b>Preparation Method 3540C</b>
Analysis Date:	10/23/09			Preparation Date: 10/19/09
Aroclor 1016	< 500	80.0	ug/kg	
Aroclor 1221	< 500	80.0	ug/kg	
Aroclor 1232	< 500	80.0	ug/kg	
Aroclor 1242	< 500	80.0	ug/kg	
Aroclor 1248	< 500	80.0	ug/kg	
Aroclor 1254	< 500	160	ug/kg	
Aroclor 1260	< 500	160	ug/kg	



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### Analytical Report

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 10:38

**Sample ID:** AM-WL01-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-009

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.31	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	9.00		Units	10/19/09 14:00	4500H+B	



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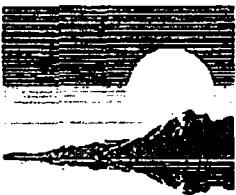
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL01-101509  
**Sample No:** 9-4366-009

**Date Collected:** 10/15/09  
**Time Collected:** 10:38  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>				<b>Method: 5035A/8260B</b>
Analysis Date: 10/21/09				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL01-101509  
**Sample No:** 9-4366-009

**Date Collected:** 10/15/09  
**Time Collected:** 10:38  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
			Preparation Date: 10/22/09	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	



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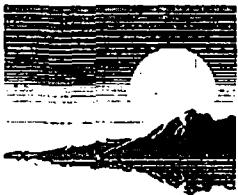
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL01-101509  
**Sample No:** 9-4366-009

**Date Collected:** 10/15/09  
**Time Collected:** 10:38  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 10/22/09			Preparation Date: 10/22/09	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b>	
Analysis Date: 10/22/09			Preparation Date: 10/19/09	
Aluminum	15.1	5.0	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL01-101509  
**Sample No:** 9-4366-009

**Date Collected:** 10/15/09  
**Time Collected:** 10:38  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

<b>Analyte</b>	<b>Result</b>	<b>R.L.</b>	<b>Units</b>	<b>Flags</b>
<b>Total Metals</b>	<b>Method: 6010B</b>			<b>Preparation Method: 3050B</b>
Analysis Date:	10/22/09			Preparation Date: 10/19/09
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 0.2	0.2	mg/kg	
Barium	0.2	0.1	mg/kg	
Beryllium	< 0.1	0.1	mg/kg	
Cadmium	< 0.1	0.1	mg/kg	
Calcium	204	10	mg/kg	
Chromium	0.4	0.1	mg/kg	
Cobalt	< 0.1	0.1	mg/kg	
Copper	0.3	0.1	mg/kg	
Iron	185	1.0	mg/kg	
Lead	< 0.2	0.2	mg/kg	
Magnesium	63	10	mg/kg	
Manganese	1.4	0.1	mg/kg	
Nickel	0.3	0.1	mg/kg	
Potassium	23	10	mg/kg	
Selenium	< 0.2	0.2	mg/kg	
Silver	< 0.1	0.1	mg/kg	
Sodium	471	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	< 1.0	1.0	mg/kg	
Zinc	36.7	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/20/09			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>			<b>Preparation Method: 3540C</b>
Analysis Date:	10/23/09			Preparation Date: 10/19/09
Aroclor 1016	< 500	80.0	ug/kg	
Aroclor 1221	< 500	80.0	ug/kg	
Aroclor 1232	< 500	80.0	ug/kg	
Aroclor 1242	< 500	80.0	ug/kg	
Aroclor 1248	< 500	80.0	ug/kg	
Aroclor 1254	< 500	160	ug/kg	
Aroclor 1260	< 500	160	ug/kg	



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### Analytical Report

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 11:00

**Sample ID:** AM-WL02-101509

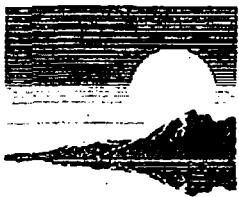
**Date Received:** 10/16/09

**Sample No:** 9-4366-010

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	< 0.10	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	6.00		Units	10/19/09 14:00	4500H+B	



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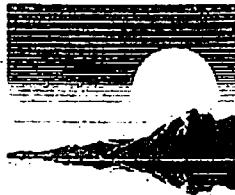
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL02-101509  
**Sample No:** 9-4366-010

**Date Collected:** 10/15/09  
**Time Collected:** 11:00  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/21/09				
Acetone	< 100	100	ug/kg	
Benzene	11.7	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL02-101509  
**Sample No:** 9-4366-010

**Date Collected:** 10/15/09  
**Time Collected:** 11:00  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method: 8270C	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Preparation Method 3540C</b>			
Analysis Date: 10/22/09		Preparation Date: 10/22/09			
Acenaphthene		< 330	330	ug/kg	
Acenaphthylene		< 330	330	ug/kg	
Anthracene		< 330	330	ug/kg	
Benzidine		< 330	330	ug/kg	
Benzo(a)anthracene		< 330	330	ug/kg	
Benzo(a)pyrene		313	90	ug/kg	
Benzo(b)fluoranthene		< 330	330	ug/kg	
Benzo(k)fluoranthene		< 330	330	ug/kg	
Benzo(ghi)perylene		< 330	330	ug/kg	
Benzoic acid		< 330	330	ug/kg	
Benzyl alcohol		< 330	330	ug/kg	
bis(2-Chloroethoxy)methane		< 330	330	ug/kg	
bis(2-Chloroethyl)ether		< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether		< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate		< 330	330	ug/kg	
4-Bromophenyl phenyl ether		< 330	330	ug/kg	
Butyl benzyl phthalate		< 330	330	ug/kg	
Carbazole		< 330	330	ug/kg	
4-Chloroaniline		< 330	330	ug/kg	
4-Chloro-3-methylphenol		< 330	330	ug/kg	
2-Chloronaphthalene		< 330	330	ug/kg	
2-Chlorophenol		< 330	330	ug/kg	
4-Chlorophenyl phenyl ether		< 330	330	ug/kg	
Chrysene		< 330	330	ug/kg	
Dibenzo(a,h)anthracene		< 90	90	ug/kg	
Dibenzofuran		< 330	330	ug/kg	
1,2-Dichlorobenzene		< 330	330	ug/kg	
1,3-Dichlorobenzene		< 330	330	ug/kg	
1,4-Dichlorobenzene		< 330	330	ug/kg	
3,3'-Dichlorobenzidine		< 660	660	ug/kg	
2,4-Dichlorophenol		< 330	330	ug/kg	
Diethyl phthalate		< 330	330	ug/kg	
2,4-Dimethylphenol		< 330	330	ug/kg	
Dimethyl phthalate		< 330	330	ug/kg	
Di-n-butyl phthalate		< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 1,600	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL02-101509  
**Sample No:** 9-4366-010

**Date Collected:** 10/15/09  
**Time Collected:** 11:00  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 10/22/09			Preparation Date: 10/22/09	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	703	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	.514	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b>	
Analysis Date: 10/22/09			Preparation Date: 10/19/09	
Aluminum	40.8	5.0	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL02-101509  
**Sample No:** 9-4366-010

**Date Collected:** 10/15/09  
**Time Collected:** 11:00  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b> Analysis Date: 10/22/09	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b> Preparation Date: 10/19/09
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 0.2	0.2	mg/kg	
Barium	4.4	0.1	mg/kg	
Beryllium	< 0.1	0.1	mg/kg	
Cadmium	< 0.1	0.1	mg/kg	
Calcium	348	10	mg/kg	
Chromium	1.6	0.1	mg/kg	
Cobalt	< 0.1	0.1	mg/kg	
Copper	0.9	0.1	mg/kg	
Iron	399	1.0	mg/kg	
Lead	0.8	0.2	mg/kg	
Magnesium	203	10	mg/kg	
Manganese	2.7	0.1	mg/kg	
Nickel	0.3	0.1	mg/kg	
Potassium	39	10	mg/kg	
Selenium	< 0.2	0.2	mg/kg	
Silver	< 0.1	0.1	mg/kg	
Sodium	202	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	< 1.0	1.0	mg/kg	
Zinc	5.4	0.5	mg/kg	
<b>Total Metals</b> Analysis Date: 10/21/09	<b>Method: 7470A</b>			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b> Analysis Date: 10/23/09	<b>Method: 8082</b>			<b>Preparation Method 3540C</b> Preparation Date: 10/19/09
Aroclor 1016	< 500	80.0	ug/kg	
Aroclor 1221	< 500	80.0	ug/kg	
Aroclor 1232	< 500	80.0	ug/kg	
Aroclor 1242	< 500	80.0	ug/kg	
Aroclor 1248	< 500	80.0	ug/kg	
Aroclor 1254	< 500	160	ug/kg	
Aroclor 1260	< 500	160	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 10:48

**Sample ID:** AM-WL03-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-011

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	3.40	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	14.00		Units	10/19/09 14:00	4500H+B	
Flash Point - Closed Cup	No Flash @		212 °F	10/23/09	1010	



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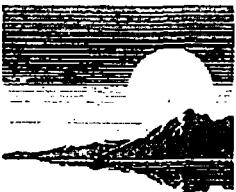
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509  
**Sample No:** 9-4366-011

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>5035A/8260B</b>			
Analysis Date: 10/22/09					
Acetone		< 100	100	ug/kg	
Benzene		< 5.0	5.0	ug/kg	
Bromodichloromethane		< 5.0	5.0	ug/kg	
Bromoform		< 5.0	5.0	ug/kg	
Bromomethane		< 10.0	10.0	ug/kg	
2-Butanone (MEK)		< 100	100	ug/kg	
Carbon disulfide		< 5.0	5.0	ug/kg	
Carbon tetrachloride		< 5.0	5.0	ug/kg	
Chlorobenzene		< 5.0	5.0	ug/kg	
Chlorodibromomethane		< 5.0	5.0	ug/kg	
Chloroethane		< 10.0	10.0	ug/kg	
Chloroform		< 5.0	5.0	ug/kg	
Chloromethane		< 10.0	10.0	ug/kg	
1,1-Dichloroethane		< 5.0	5.0	ug/kg	
1,2-Dichloroethane		< 5.0	5.0	ug/kg	
1,1-Dichloroethene		< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene		< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene		< 5.0	5.0	ug/kg	
1,2-Dichloropropane		< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene		< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene		< 5.0	5.0	ug/kg	
Ethylbenzene		< 5.0	5.0	ug/kg	
2-Hexanone		< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)		< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)		< 10.0	10.0	ug/kg	
Methylene chloride		< 20.0	20.0	ug/kg	
Styrene		< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane		< 5.0	5.0	ug/kg	
Tetrachloroethene		< 5.0	5.0	ug/kg	
Toluene		< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane		< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane		< 5.0	5.0	ug/kg	
Trichloroethene		< 5.0	5.0	ug/kg	
Vinyl acetate		< 10.0	10.0	ug/kg	
Vinyl chloride		< 10.0	10.0	ug/kg	
Xylene, Total		< 5.0	5.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509  
**Sample No:** 9-4366-011

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 10/22/09			Preparation Date: 10/22/09	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	

11/18/09



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509  
**Sample No:** 9-4366-011

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3050B</b>	
Aluminum	9.3	5.0	mg/kg	

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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509  
**Sample No:** 9-4366-011

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b>	
Analysis Date:	10/22/09		Preparation Date:	10/19/09
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	0.2	mg/kg	
Barium	0.3	0.1	mg/kg	
Beryllium	< 0.1	0.1	mg/kg	
Cadmium	< 0.1	0.1	mg/kg	
Calcium	13	10	mg/kg	
Chromium	1.2	0.1	mg/kg	
Cobalt	0.2	0.1	mg/kg	
Copper	3.1	0.1	mg/kg	
Iron	100	1.0	mg/kg	
Lead	0.4	0.2	mg/kg	
Magnesium	< 10	10	mg/kg	
Manganese	1.3	0.1	mg/kg	
Nickel	0.7	0.1	mg/kg	
Potassium	1,630	10	mg/kg	
Selenium	1.7	0.2	mg/kg	
Silver	< 0.1	0.1	mg/kg	
Sodium	106,000	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	4.0	1.0	mg/kg	
Zinc	816	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/21/09			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Analysis Date:	10/23/09		Preparation Date:	10/19/09
Aroclor 1016	< 500	80.0	ug/kg	
Aroclor 1221	< 500	80.0	ug/kg	
Aroclor 1232	< 500	80.0	ug/kg	
Aroclor 1242	< 500	80.0	ug/kg	
Aroclor 1248	< 500	80.0	ug/kg	
Aroclor 1254	< 500	160	ug/kg	
Aroclor 1260	< 500	160	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 11:20

**Sample ID:** AM-WL04-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-012

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.18	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	14.00		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL04-101509  
**Sample No:** 9-4366-012

**Date Collected:** 10/15/09  
**Time Collected:** 11:20  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/22/09				
Acetone	162	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	



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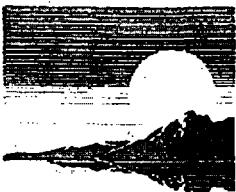
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL04-101509  
**Sample No:** 9-4366-012

**Date Collected:** 10/15/09  
**Time Collected:** 11:20  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method: 3540C</b>	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL04-101509  
**Sample No:** 9-4366-012

**Date Collected:** 10/15/09  
**Time Collected:** 11:20  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
		Preparation Date: 10/22/09		
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3050B</b>	
Aluminum	< 5.0	5.0	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL04-101509  
**Sample No:** 9-4366-012

**Date Collected:** 10/15/09  
**Time Collected:** 11:20  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>				<b>Preparation Method 3050B</b>
Analysis Date:	10/22/09				Preparation Date: 10/19/09
Antimony		< 1.0	1.0	mg/kg	
Arsenic		0.4	0.2	mg/kg	
Barium		< 0.1	0.1	mg/kg	
Beryllium		< 0.1	0.1	mg/kg	
Cadmium		< 0.1	0.1	mg/kg	
Calcium		< 10	10	mg/kg	
Chromium		< 0.1	0.1	mg/kg	
Cobalt		< 0.1	0.1	mg/kg	
Copper		0.2	0.1	mg/kg	
Iron		8.1	1.0	mg/kg	
Lead		< 0.2	0.2	mg/kg	
Magnesium		< 10	10	mg/kg	
Manganese		< 0.1	0.1	mg/kg	
Nickel		0.3	0.1	mg/kg	
Potassium		164	10	mg/kg	
Selenium		< 0.2	0.2	mg/kg	
Silver		< 0.1	0.1	mg/kg	
Sodium		16,000	10	mg/kg	
Thallium		< 1.0	1.0	mg/kg	
Vanadium		< 1.0	1.0	mg/kg	
Zinc		1.8	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>				
Analysis Date:	10/21/09				
Mercury		< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>				<b>Preparation Method 3540C</b>
Analysis Date:	10/23/09				Preparation Date: 10/19/09
Aroclor 1016		< 500	80.0	ug/kg	
Aroclor 1221		< 500	80.0	ug/kg	
Aroclor 1232		< 500	80.0	ug/kg	
Aroclor 1242		< 500	80.0	ug/kg	
Aroclor 1248		< 500	80.0	ug/kg	
Aroclor 1254		< 500	160	ug/kg	
Aroclor 1260		< 500	160	ug/kg	



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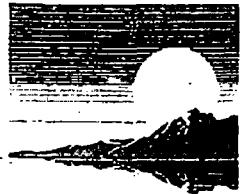
### Analytical Report

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL05-101509  
**Sample No:** 9-4366-013

**Date Collected:** 10/15/09  
**Time Collected:** 11:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
pH @ 25°C, 1:10	1.00		Units	10/19/09 14:00	4500H+B	



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### Analytical Report

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS01-101509  
**Sample No:** 9-4366-014

**Date Collected:** 10/15/09  
**Time Collected:** 14:10  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	1.22	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	9.67		Units	10/19/09 14:00	4500H+B	



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Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>		<b>Method: 2540B</b>		
Analysis Date: 10/16/09				
Total Solids	86.41		%	
<b>TCLP Metals Method 1311</b>		<b>Method: 6010B</b>		
Analysis Date: 10/26/09				<b>Preparation Method 3010A</b>
Analysis Date: 10/21/09				Preparation Date: 10/21/09
Arsenic	< 0.002	0.002	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	0.007	0.001	mg/L	
Chromium	< 0.001	0.001	mg/L	
Lead	< 0.002	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	
Silver	< 0.001	0.001	mg/L	
<b>TCLP Metals Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 10/21/09				
Mercury	< 0.0005	0.0005	mg/L	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/20/09				
Acetone	181	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	



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Analyte	Method:	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>					<b>Method: 5035A/8260B</b>
Analysis Date: 10/20/09					
trans-1,3-Dichloropropene		< 5.0	5.0	ug/kg	
Ethylbenzene		< 5.0	5.0	ug/kg	
2-Hexanone		< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)		< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)		< 10.0	10.0	ug/kg	
Methylene chloride		< 20.0	20.0	ug/kg	
Styrene		< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane		< 5.0	5.0	ug/kg	
Tetrachloroethene		< 5.0	5.0	ug/kg	
Toluene		< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane		< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane		< 5.0	5.0	ug/kg	
Trichloroethene		< 5.0	5.0	ug/kg	
Vinyl acetate		< 10.0	10.0	ug/kg	
Vinyl chloride		< 10.0	10.0	ug/kg	
Xylene, Total		< 5.0	5.0	ug/kg	

Semi-Volatile Compounds	Method:	Preparation Method	Preparation Date:
Analysis Date: 10/22/09			3540C
Preparation Date: 10/21/09			
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	657	330	ug/kg
Benzo(a)pyrene	793	90	ug/kg
Benzo(b)fluoranthene	768	330	ug/kg
Benzo(k)fluoranthene	546	330	ug/kg
Benzo(ghi)perylene	370	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	402	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg



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**Analytical Report**

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**Sample ID:** AM-SS01-101509  
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Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	757	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,060	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	



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Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	666	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	926	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010B</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3050B</b>	
Preparation Date: 10/19/09				
Aluminum	4,400	5.0	mg/kg	
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	0.2	mg/kg	
Barium	58.5	0.1	mg/kg	
Beryllium	0.4	0.1	mg/kg	
Cadmium	0.8	0.1	mg/kg	
Calcium	81,800	10	mg/kg	
Chromium	17.4	0.1	mg/kg	
Cobalt	3.0	0.1	mg/kg	
Copper	27.5	0.1	mg/kg	
Iron	8,550	1.0	mg/kg	
Lead	23.1	0.2	mg/kg	
Magnesium	47,400	10	mg/kg	
Manganese	304	0.1	mg/kg	
Nickel	11.9	0.1	mg/kg	
Potassium	1,560	10	mg/kg	
Selenium	< 0.2	0.2	mg/kg	
Silver	0.2	0.1	mg/kg	
Sodium	1,860	10	mg/kg	



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Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010B		Preparation Method 3050B	
Analysis Date: 10/22/09			Preparation Date: 10/19/09	
Thallium	< 1.0	1.0	mg/kg	44
Vanadium	14.1 ✓	1.0	mg/kg	
Zinc	154	0.5	mg/kg	11/18/09
Total Metals	Method: 7470A			
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
Polychlorinated biphenyls (PCBs)	Method: 8082		Preparation Method 3540C	
Analysis Date: 10/22/09			Preparation Date: 10/19/09	
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	< 80.0	80.0	ug/kg	
Aroclor 1254	< 160	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 14:20

**Sample ID:** AM-SS02-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-015

**Date Reported:** 11/02/09

**Results are reported on a dry weight basis**

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	3.95	0.10	mg/kg	10/21/09	4500CN,C,E	
pH @ 25°C, 1:10	8.56		Units	10/19/09 14:00	4500H+B	



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Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
Analysis Date: 10/16/09	Method: 2540B			
Total Solids	75.11		%	
<b>TCLP Metals Method 1311</b>				
Analysis Date: 10/26/09	Method: 6010B			
Arsenic	< 0.002	0.002	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	0.001	0.001	mg/L	
Chromium	0.041	0.001	mg/L	
Lead	< 0.002	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	
Silver	< 0.001	0.001	mg/L	
<b>TCLP Metals Method 1311</b>				
Analysis Date: 10/21/09	Method: 7470A			
Mércury	< 0.0005	0.0005	mg/L	
<b>Volatile Organic Compounds</b>				
Analysis Date: 10/21/09	Method: 5035A/8260B			
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	



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Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>				<b>Method: 5035A/8260B</b>
Analysis Date: 10/21/09				
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C	Preparation Date: 10/21/09
Analysis Date: 10/22/09			
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	641	330	ug/kg
Benzo(a)pyrene	822	90	ug/kg
Benzo(b)fluoranthene	1,060	330	ug/kg
Benzo(k)fluoranthene	639	330	ug/kg
Benzo(ghi)perylene	432	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	5,060	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	948	330	ug/kg
Carbazole	< 330	330	ug/kg



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Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 10/22/09			<b>Preparation Method 3540C</b>	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	757	330	ug/kg	
Dibenzo(a,h)anthracene	91	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,570	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	449	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	



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**Analytical Report**

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**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS02-101509  
**Sample No:** 9-4366-015

**Date Collected:** 10/15/09  
**Time Collected:** 14:20  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Method:	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Preparation Method 3540C</b>			
Analysis Date: 10/22/09		Preparation Date: 10/21/09			
4-Nitroaniline	8270C	< 1,600	1600	ug/kg	
Nitrobenzene		< 260	260	ug/kg	
2-Nitrophenol		< 1,600	1600	ug/kg	
4-Nitrophenol		< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 90	90	ug/kg	
n-Nitrosodimethylamine		< 330	330	ug/kg	
n-Nitrosodiphenylamine		< 330	330	ug/kg	
Pentachlorophenol		< 330	330	ug/kg	
Phenanthrene		752	330	ug/kg	
Phenol		< 330	330	ug/kg	
Pyrene		1,170	330	ug/kg	
Pyridine		< 330	330	ug/kg	
1,2,4-Trichlorobenzene		< 330	330	ug/kg	
2,4,5-Trichlorophenol		< 330	330	ug/kg	
2,4,6-Trichlorophenol		< 330	330	ug/kg	

Total Metals	Method:	Result	Preparation Method	Preparation Date:
Analysis Date: 10/22/09	6010B		3050B	10/19/09
Aluminum		7,140	5.0	mg/kg
Antimony		5.7	1.0	mg/kg
Arsenic		7.0	0.2	mg/kg
Barium		61.4	0.1	mg/kg
Beryllium		0.7	0.1	mg/kg
Cadmium		4.4	0.1	mg/kg
Calcium		56,700	10	mg/kg
Chromium		115	0.1	mg/kg
Cobalt		4.4	0.1	mg/kg
Copper		55.0	0.1	mg/kg
Iron		101,000	1.0	mg/kg
Lead		66.4	0.2	mg/kg
Magnesium		28,100	10	mg/kg
Manganese		443	0.1	mg/kg
Nickel		58.8	0.1	mg/kg
Potassium		898	10	mg/kg
Selenium		0.4	0.2	mg/kg
Silver		0.2	0.1	mg/kg
Sodium		619	10	mg/kg

AB  
11/18/09



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS02-101509  
**Sample No:** 9-4366-015

**Date Collected:** 10/15/09  
**Time Collected:** 14:20  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b> Analysis Date: 10/22/09	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b>	
Thallium	< 1.0	1.0	mg/kg	✓
Vanadium	20.6	1.0	mg/kg	✓
Zinc	16,000	0.5	mg/kg	11/18/09
<b>Total Metals</b> Analysis Date: 10/20/09	<b>Method: 7470A</b>			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b> Analysis Date: 10/22/09	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	< 80.0	80.0	ug/kg	
Aroclor 1254	< 160	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	



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### Analytical Report

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 14:30

**Sample ID:** AM-SS03-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-016

**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	0.78	0.10	mg/kg	10/22/09	4500CN,C,E	
pH @ 25°C, 1:10	11.90		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS03-101509  
**Sample No:** 9-4366-016

**Date Collected:** 10/15/09  
**Time Collected:** 14:30  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Result	R.L.	Units	Flags
Solids, total	Method: 2540B			
Analysis Date:	10/16/09			
Total Solids	77.91		%	
TCLP Metals Method 1311	Method: 6010B		Preparation Method 3010A	
Analysis Date:	10/26/09		Preparation Date: 10/21/09	
Arsenic	< 0.002	0.002	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	0.010	0.001	mg/L	
Chromium	0.004	0.001	mg/L	
Lead	< 0.002	0.002	mg/L	
Selenium	0.016	0.002	mg/L	
Silver	< 0.001	0.001	mg/L	
TCLP Metals Method 1311	Method: 7470A			
Analysis Date:	10/21/09			
Mercury	< 0.0005	0.0005	mg/L	
Volatile Organic Compounds	Method: 5035A/8260B			
Analysis Date:	10/20/09			
Acetone	< 100,000	100	ug/kg	
Benzene	< 5,000	5.0	ug/kg	
Bromodichloromethane	< 5,000	5.0	ug/kg	
Bromoform	< 5,000	5.0	ug/kg	
Bromomethane	< 10,000	10.0	ug/kg	
2-Butanone (MEK)	< 100,000	100	ug/kg	
Carbon disulfide	< 5,000	5.0	ug/kg	
Carbon tetrachloride	< 5,000	5.0	ug/kg	
Chlorobenzene	< 5,000	5.0	ug/kg	
Chlorodibromomethane	< 5,000	5.0	ug/kg	
Chloroethane	< 10,000	10.0	ug/kg	
Chloroform	< 5,000	5.0	ug/kg	
Chloromethane	< 10,000	10.0	ug/kg	
1,1-Dichloroethane	< 5,000	5.0	ug/kg	
1,2-Dichloroethane	< 5,000	5.0	ug/kg	
1,1-Dichloroethene	< 5,000	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5,000	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5,000	5.0	ug/kg	
1,2-Dichloropropane	< 5,000	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5,000	5.0	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS03-101509  
**Sample No:** 9-4366-016

**Date Collected:** 10/15/09  
**Time Collected:** 14:30  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>				<b>Method: 5035A/8260B</b>
Analysis Date: 10/20/09				
trans-1,3-Dichloropropene	< 5,000	5.0	ug/kg	
Ethylbenzene	< 5,000	5.0	ug/kg	
2-Hexanone	< 10,000	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5,000	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10,000	10.0	ug/kg	
Methylene chloride	< 20,000	20.0	ug/kg	
Styrene	< 5,000	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5,000	5.0	ug/kg	
Tetrachloroethene	< 5,000	5.0	ug/kg	
Toluene	< 5,000	5.0	ug/kg	
1,1,1-Trichloroethane	< 5,000	5.0	ug/kg	
1,1,2-Trichloroethane	< 5,000	5.0	ug/kg	
Trichloroethene	< 5,000	5.0	ug/kg	
Vinyl acetate	< 10,000	10.0	ug/kg	
Vinyl chloride	< 10,000	10.0	ug/kg	
Xylene, Total	< 5,000	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C	Preparation Date: 10/21/09
Acenaphthene	< 158,000	330	ug/kg
Acenaphthylene	< 158,000	330	ug/kg
Anthracene	< 158,000	330	ug/kg
Benzidine	< 158,000	330	ug/kg
Benzo(a)anthracene	< 158,000	330	ug/kg
Benzo(a)pyrene	< 43,100	90	ug/kg
Benzo(b)fluoranthene	< 158,000	330	ug/kg
Benzo(k)fluoranthene	< 158,000	330	ug/kg
Benzo(ghi)perylene	< 158,000	330	ug/kg
Benzoic acid	< 158,000	330	ug/kg
Benzyl alcohol	< 158,000	330	ug/kg
bis(2-Chloroethoxy)methane	< 158,000	330	ug/kg
bis(2-Chloroethyl)ether	< 158,000	330	ug/kg
bis(2-Chloroisopropyl)ether	< 158,000	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 158,000	330	ug/kg
4-Bromophenyl phenyl ether	< 158,000	330	ug/kg
Butyl benzyl phthalate	< 158,000	330	ug/kg
Carbazole	< 158,000	330	ug/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS03-101509  
**Sample No:** 9-4366-016

**Date Collected:** 10/15/09  
**Time Collected:** 14:30  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 10/23/09				
4-Nitroaniline	< 790,000	1600	ug/kg	
Nitrobenzene	< 124,000	260	ug/kg	
2-Nitrophenol	< 790,000	1600	ug/kg	
4-Nitrophenol	< 790,000	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 43,100	90	ug/kg	
n-Nitrosodimethylamine	< 158,000	330	ug/kg	
n-Nitrosodiphenylamine	< 158,000	330	ug/kg	
Pentachlorophenol	< 158,000	330	ug/kg	
Phenanthrene	< 158,000	330	ug/kg	
Phenol	< 158,000	330	ug/kg	
Pyrene	< 158,000	330	ug/kg	
Pyridine	< 158,000	330	ug/kg	
1,2,4-Trichlorobenzene	< 158,000	330	ug/kg	
2,4,5-Trichlorophenol	< 158,000	330	ug/kg	
2,4,6-Trichlorophenol	< 158,000	330	ug/kg	

Total Metals	Method: 6010B	Preparation Method 3050B	
Analysis Date: 10/22/09			
Preparation Date: 10/19/09			
Aluminum	659	5.0	mg/kg
Antimony	32.4	1.0	mg/kg
Arsenic	3.4	0.2	mg/kg
Barium	205	0.1	mg/kg
Beryllium	0.2	0.1	mg/kg
Cadmium	5.5	0.1	mg/kg
Calcium	15,600	10	mg/kg
Chromium	2,200	0.1	mg/kg
Cobalt	10.7	0.1	mg/kg
Copper	189	0.1	mg/kg
Iron	326,000	1.0	mg/kg
Lead	136	0.2	mg/kg
Magnesium	3,480	10	mg/kg
Manganese	2,250	0.1	mg/kg
Nickel	936	0.1	mg/kg
Potassium	502	10	mg/kg
Selenium	16.1	0.2	mg/kg
Silver	0.9	0.1	mg/kg
Sodium	23,100	10	mg/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS03-101509  
**Sample No:** 9-4366-016

**Date Collected:** 10/15/09  
**Time Collected:** 14:30  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Method: 8270C	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Preparation Method 3540C				
Analysis Date: 10/23/09	Preparation Date: 10/21/09				
4-Chloroaniline	< 158,000	330		ug/kg	
4-Chloro-3-methylphenol	< 158,000	330		ug/kg	
2-Chloronaphthalene	< 158,000	330		ug/kg	
2-Chlorophenol	< 158,000	330		ug/kg	
4-Chlorophenyl phenyl ether	< 158,000	330		ug/kg	
Chrysene	< 158,000	330		ug/kg	
Dibenzo(a,h)anthracene	< 43,100	90		ug/kg	
Dibenzofuran	< 158,000	330		ug/kg	
1,2-Dichlorobenzene	< 158,000	330		ug/kg	
1,3-Dichlorobenzene	< 158,000	330		ug/kg	
1,4-Dichlorobenzene	< 158,000	330		ug/kg	
3,3'-Dichlorobenzidine	< 316,000	660		ug/kg	
2,4-Dichlorophenol	< 158,000	330		ug/kg	
Diethyl phthalate	< 158,000	330		ug/kg	
2,4-Dimethylphenol	< 158,000	330		ug/kg	
Dimethyl phthalate	< 158,000	330		ug/kg	
Di-n-butyl phthalate	< 158,000	330		ug/kg	
4,6-Dinitro-2-methylphenol	< 790,000	1600		ug/kg	
2,4-Dinitrophenol	< 790,000	1600		ug/kg	
2,4-Dinitrotoluene	< 120,000	250		ug/kg	
2,6-Dinitrotoluene	< 124,000	260		ug/kg	
Di-n-octylphthalate	< 158,000	330		ug/kg	
Fluoranthene	< 158,000	330		ug/kg	
Fluorene	< 158,000	330		ug/kg	
Hexachlorobenzene	< 158,000	330		ug/kg	
Hexachlorobutadiene	< 158,000	330		ug/kg	
Hexachlorocyclopentadiene	< 158,000	330		ug/kg	
Hexachloroethane	< 158,000	330		ug/kg	
Indeno(1,2,3-cd)pyrene	< 158,000	330		ug/kg	
Isophorone	< 158,000	330		ug/kg	
2-Methylnaphthalene	< 158,000	330		ug/kg	
2-Methylphenol	< 158,000	330		ug/kg	
3 & 4-Methylphenol	< 158,000	330		ug/kg	
Naphthalene	< 158,000	330		ug/kg	
2-Nitroaniline	< 790,000	1600		ug/kg	
3-Nitroaniline	< 790,000	1600		ug/kg	



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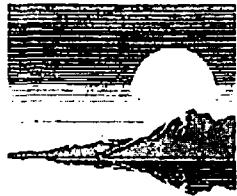
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-SS03-101509  
**Sample No:** 9-4366-016

**Date Collected:** 10/15/09  
**Time Collected:** 14:30  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on a dry weight basis

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b> Analysis Date: 10/22/09	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b>	
Thallium	< 1.0	1.0	mg/kg	DD
Vanadium	17.4	1.0	mg/kg	11/18/09
Zinc	3,850	0.5	mg/kg	
<b>Total Metals</b> Analysis Date: 10/20/09	<b>Method: 7470A</b>			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b> Analysis Date: 10/23/09	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	< 400	80.0	ug/kg	
Aroclor 1254	< 400	160	ug/kg	
Aroclor 1260	< 400	160	ug/kg	



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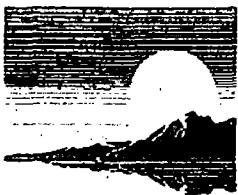
### Analytical Report

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP01-101509  
**Sample No:** 9-4366-017

**Date Collected:** 10/15/09  
**Time Collected:** 14:35  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	22.5	0.10	mg/wipe	10/22/09	4500CN,C,E	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP01-101509  
**Sample No:** 9-4366-017

**Date Collected:** 10/15/09  
**Time Collected:** 14:35  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b>
Analysis Date:	10/22/09			Preparation Date: 10/19/09
Aluminum	4,290	5.0	mg/kg	
Antimony	66.2	1.0	mg/kg	
Arsenic	10.5	0.2	mg/kg	
Barium	966	0.1	mg/kg	
Beryllium	0.6	0.1	mg/kg	
Cadmium	26.1	0.1	mg/kg	
Calcium	71,800	10	mg/kg	
Chromium	1,190	0.1	mg/kg	
Cobalt	22.1	0.1	mg/kg	
Copper	1,130	0.1	mg/kg	
Iron	384,000	1.0	mg/kg	
Lead	250	0.2	mg/kg	
Magnesium	23,000	10	mg/kg	
Manganese	1,700	0.1	mg/kg	
Nickel	389	0.1	mg/kg	
Potassium	1,470	10	mg/kg	
Selenium	5.3	0.2	mg/kg	
Silver	2.2	0.1	mg/kg	
Sodium	10,200	10	mg/kg	
Thallium	< 3.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	9,000	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/21/09			
Mercury	< 0.00075	0.0005	mg/wipe	



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### Analytical Report

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP02-101509  
**Sample No:** 9-4366-018

**Date Collected:** 10/15/09  
**Time Collected:** 14:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	7.96	0.10	mg/wipe	10/22/09	4500CN,C,E	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP02-101509  
**Sample No:** 9-4366-018

**Date Collected:** 10/15/09  
**Time Collected:** 14:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b>
Analysis Date:	10/22/09			Preparation Date: 10/19/09
Aluminum	299	5.0	mg/kg	
Antimony	60.4	1.0	mg/kg	
Arsenic	< 0.6	0.2	mg/kg	
Barium	5.4	0.1	mg/kg	
Beryllium	0.2	0.1	mg/kg	
Cadmium	0.2	0.1	mg/kg	
Calcium	2,410	10	mg/kg	
Chromium	10.7	0.1	mg/kg	
Cobalt	0.2	0.1	mg/kg	
Copper	4.9	0.1	mg/kg	
Iron	3,290	1.0	mg/kg	
Lead	2.2	0.2	mg/kg	
Magnesium	793	10	mg/kg	
Manganese	16.6	0.1	mg/kg	
Nickel	2.2	0.1	mg/kg	
Potassium	98	10	mg/kg	
Selenium	< 0.6	0.2	mg/kg	
Silver	< 0.3	0.1	mg/kg	
Sodium	2,920	10	mg/kg	
Thallium	< 3.0	1.0	mg/kg	
Vanadium	1.7	1.0	mg/kg	
Zinc	451	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/21/09			
Mercury	< 0.00075	0.0005	mg/wipe	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 14:45

**Sample ID:** AM-WP03-101509

**Date Received:** 10/16/09

**Sample No:** 9-4366-019

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	5.34	0.10	mg/wipe	10/22/09	4500CN,C,E	



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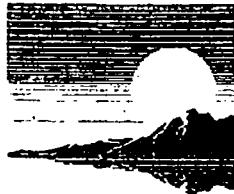
**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP03-101509  
**Sample No:** 9-4366-019

**Date Collected:** 10/15/09  
**Time Collected:** 14:45  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b>
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Aluminum	459	5.0	mg/kg	
Antimony	65.4	1.0	mg/kg	
Arsenic	< 0.6	0.2	mg/kg	
Barium	8.4	0.1	mg/kg	
Beryllium	0.2	0.1	mg/kg	
Cadmium	0.3	0.1	mg/kg	
Calcium	12,500	10	mg/kg	
Chromium	32.3	0.1	mg/kg	
Cobalt	11.8	0.1	mg/kg	
Copper	19.0	0.1	mg/kg	
Iron	5,250	1.0	mg/kg	
Lead	8.7	0.2	mg/kg	
Magnesium	574	10	mg/kg	
Manganese	55.2	0.1	mg/kg	
Nickel	13.7	0.1	mg/kg	
Potassium	119	10	mg/kg	
Selenium	< 0.6	0.2	mg/kg	
Silver	0.8	0.1	mg/kg	
Sodium	3,630	10	mg/kg	
Thallium	< 3.0	1.0	mg/kg	
Vanadium	1.2	1.0	mg/kg	
Zinc	460	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date: 10/21/09				
Mercury	< 0.00075	0.0005	mg/wipe	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509D  
**Sample No:** 9-4366-020

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	1.15	0.10	mg/kg	10/22/09	4500CN,C,E	
pH @ 25°C, 1:10	10.26		Units	10/19/09 14:00	4500H+B	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509D  
**Sample No:** 9-4366-020

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010B</b>		
Analysis Date: 10/26/09			<b>Preparation Method 3010A</b>	
Arsenic	0.008	0.002	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.001	0.001	mg/L	
Chromium	0.004	0.001	mg/L	
Lead	0.021	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	
Silver	< 0.001	0.001	mg/L	

<b>TCLP Metals Method 1311</b>	<b>Method: 7470A</b>
Analysis Date: 10/21/09	
Mercury	< 0.0005

<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>
Analysis Date: 10/22/09	

Acetone	< 100	100	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509D  
**Sample No:** 9-4366-020

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>					<b>Method: 5035A/8260B</b>
Analysis Date: 10/22/09					
Methyl-tert-butylether (MTBE)		< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)		< 10.0	10.0	ug/kg	
Methylene chloride		< 20.0	20.0	ug/kg	
Styrene		< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane		< 5.0	5.0	ug/kg	
Tetrachloroethylene		< 5.0	5.0	ug/kg	
Toluene		< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane		< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane		< 5.0	5.0	ug/kg	
Trichloroethylene		< 5.0	5.0	ug/kg	
Vinyl acetate		< 10.0	10.0	ug/kg	
Vinyl chloride		< 10.0	10.0	ug/kg	
Xylene, Total		< 5.0	5.0	ug/kg	

Semi-Volatile Compounds	Method:	Preparation Method	Preparation Date
Analysis Date: 10/22/09			<b>3540C</b>
Preparation Date: 10/21/09			
Acenaphthene		< 32,000	330 ug/kg
Acenaphthylene		< 32,000	330 ug/kg
Anthracene		< 32,000	330 ug/kg
Benzidine		< 32,000	330 ug/kg
Benzo(a)anthracene		< 32,000	330 ug/kg
Benzo(a)pyrene		< 8,700	90 ug/kg
Benzo(b)fluoranthene		< 32,000	330 ug/kg
Benzo(k)fluoranthene		< 32,000	330 ug/kg
Benzo(ghi)perylene		< 32,000	330 ug/kg
Benzoic acid		< 32,000	330 ug/kg
Benzyl alcohol		< 32,000	330 ug/kg
bis(2-Chloroethoxy)methane		< 32,000	330 ug/kg
bis(2-Chloroethyl)ether		< 32,000	330 ug/kg
bis(2-Chloroisopropyl)ether		< 32,000	330 ug/kg
bis(2-Ethylhexyl)phthalate		70,800	330 ug/kg
4-Bromophenyl phenyl ether		< 32,000	330 ug/kg
Butyl benzyl phthalate		< 32,000	330 ug/kg
Carbazole		< 32,000	330 ug/kg
4-Chloroaniline		< 32,000	330 ug/kg
4-Chloro-3-methylphenol		< 32,000	330 ug/kg
2-Chloronaphthalene		< 32,000	330 ug/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509D  
**Sample No:** 9-4366-020

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
Semi-Volatile Compounds	8270C			Preparation Method: 3540C.	
Analysis Date: 10/22/09				Preparation Date: 10/21/09	
2-Chlorophenol		< 32,000	330	ug/kg	
4-Chlorophenyl phenyl ether		< 32,000	330	ug/kg	
Chrysene		< 32,000	330	ug/kg	
Dibenzo(a,h)anthracene		< 8,700	90	ug/kg	
Dibenzofuran		< 32,000	330	ug/kg	
1,2-Dichlorobenzene		< 32,000	330	ug/kg	
1,3-Dichlorobenzene		< 32,000	330	ug/kg	
1,4-Dichlorobenzene		< 32,000	330	ug/kg	
3,3'-Dichlorobenzidine		< 64,000	660	ug/kg	
2,4-Dichlorophenol		< 32,000	330	ug/kg	
Diethyl phthalate		< 32,000	330	ug/kg	
2,4-Dimethylphenol		< 32,000	330	ug/kg	
Dimethyl phthalate		< 32,000	330	ug/kg	
Di-n-butyl phthalate		< 32,000	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 160,000	1600	ug/kg	
2,4-Dinitrophenol		< 160,000	1600	ug/kg	
2,4-Dinitrotoluene		< 24,000	250	ug/kg	
2,6-Dinitrotoluene		< 25,000	260	ug/kg	
Di-n-octylphthalate		< 32,000	330	ug/kg	
Fluoranthene		< 32,000	330	ug/kg	
Fluorene		< 32,000	330	ug/kg	
Hexachlorobenzene		< 32,000	330	ug/kg	
Hexachlorobutadiene		< 32,000	330	ug/kg	
Hexachlorocyclopentadiene		< 32,000	330	ug/kg	
Hexachloroethane		< 32,000	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 32,000	330	ug/kg	
Isophorone		< 32,000	330	ug/kg	
2-Methylnaphthalene		< 32,000	330	ug/kg	
2-Methylphenol		< 32,000	330	ug/kg	
3 & 4-Methylphenol		< 32,000	330	ug/kg	
Naphthalene		< 32,000	330	ug/kg	
2-Nitroaniline		< 160,000	1600	ug/kg	
3-Nitroaniline		< 160,000	1600	ug/kg	
4-Nitroaniline		< 160,000	1600	ug/kg	
Nitrobenzene		< 25,000	260	ug/kg	
2-Nitrophenol		< 160,000	1600	ug/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509D  
**Sample No:** 9-4366-020

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>					
Analysis Date: 10/22/09					
4-Nitrophenol	8270C	< 160,000	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 25,000	90	ug/kg	
n-Nitrosodimethylamine		< 32,000	330	ug/kg	
n-Nitrosodiphenylamine		< 32,000	330	ug/kg	
Pentachlorophenol		< 32,000	330	ug/kg	
Phenanthrene		< 32,000	330	ug/kg	
Phenol		< 32,000	330	ug/kg	
Pyrene		< 32,000	330	ug/kg	
Pyridine		< 32,000	330	ug/kg	
1,2,4-Trichlorobenzene		< 32,000	330	ug/kg	
2,4,5-Trichlorophenol		< 32,000	330	ug/kg	
2,4,6-Trichlorophenol		< 32,000	330	ug/kg	

Total Metals	Method:	Result	Preparation Method	Preparation Date:
Analysis Date: 10/22/09	6010B		3050B	10/19/09
Aluminum		939	mg/kg	
Antimony		13.3	mg/kg	
Arsenic		6.1	mg/kg	
Barium		268	mg/kg	
Beryllium		0.2	mg/kg	
Cadmium		5.7	mg/kg	
Calcium		17,200	mg/kg	
Chromium		988	mg/kg	
Cobalt		7.8	mg/kg	
Copper		309	mg/kg	
Iron		233,000	mg/kg	
Lead		137	mg/kg	
Magnesium		5,330	mg/kg	
Manganese		1,510	mg/kg	
Nickel		426	mg/kg	
Potassium		557	mg/kg	
Selenium		7.5	mg/kg	
Silver		0.9	mg/kg	
Sodium		58,000	mg/kg	
Thallium		< 1.0	mg/kg	
Vanadium		13.4	mg/kg	
Zinc		4,000	mg/kg	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WS03-101509D  
**Sample No:** 9-4366-020

**Date Collected:** 10/15/09  
**Time Collected:** 13:25  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010B			Preparation Method 3050B
Analysis Date: 10/22/09				Preparation Date: 10/19/09
Total Metals	Method: 7470A			
Analysis Date: 10/20/09				
Mercury	< 0.05	0.05	mg/kg	
Polychlorinated biphenyls (PCBs)	Method: 8082			Preparation Method 3540C
Analysis Date: 10/23/09				Preparation Date: 10/19/09
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	< 80.0	80.0	ug/kg	
Aroclor 1254	< 160	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	



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### Analytical Report

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 10:48

**Sample ID:** AM-WL03-101509D

**Date Received:** 10/16/09

**Sample No:** 9-4366-021

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	3.51	0.10	mg/kg	10/22/09	4500CN,C,E	
pH @ 25°C, 1:10	14.00		Units	10/19/09 14:00	4500H+B	
Flash Point - Closed Cup	No Flash @		212 °F	10/23/09		1010



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509D  
**Sample No:** 9-4366-021

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 10/22/09				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	



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**Analytical Report**

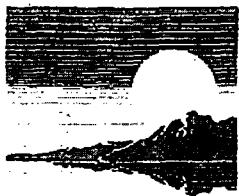
**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509D  
**Sample No:** 9-4366-021

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method: 3540C</b>	
Analysis Date: 10/22/09			Preparation Date: 10/22/09	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	

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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509D  
**Sample No:** 9-4366-021

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Method:	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C			Preparation Method 3540C	
Analysis Date: 10/22/09				Preparation Date: 10/22/09	
2,4-Dinitrophenol		< 1,600	1600	ug/kg	
2,4-Dinitrotoluene		< 250	250	ug/kg	
2,6-Dinitrotoluene		< 260	260	ug/kg	
Di-n-octylphthalate		< 330	330	ug/kg	
Fluoranthene		< 330	330	ug/kg	
Fluorene		< 330	330	ug/kg	
Hexachlorobenzene		< 330	330	ug/kg	
Hexachlorobutadiene		< 330	330	ug/kg	
Hexachlorocyclopentadiene		< 330	330	ug/kg	
Hexachloroethane		< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 330	330	ug/kg	
Isophorone		< 330	330	ug/kg	
2-Methylnaphthalene		< 330	330	ug/kg	
2-Methylphenol		< 330	330	ug/kg	
3 & 4-Methylphenol		< 330	330	ug/kg	
Naphthalene		< 330	330	ug/kg	
2-Nitroaniline		< 1,600	1600	ug/kg	
3-Nitroaniline		< 1,600	1600	ug/kg	
4-Nitroaniline		< 1,600	1600	ug/kg	
Nitrobenzene		< 260	260	ug/kg	
2-Nitrophenol		< 1,600	1600	ug/kg	
4-Nitrophenol		< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 90	90	ug/kg	
n-Nitrosodimethylamine		< 330	330	ug/kg	
n-Nitrosodiphenylamine		< 330	330	ug/kg	
Pentachlorophenol		< 330	330	ug/kg	
Phenanthrene		< 330	330	ug/kg	
Phenol		< 330	330	ug/kg	
Pyrene		< 330	330	ug/kg	
Pyridine		< 330	330	ug/kg	
1,2,4-Trichlorobenzene		< 330	330	ug/kg	
2,4,5-Trichlorophenol		< 330	330	ug/kg	
2,4,6-Trichlorophenol		< 330	330	ug/kg	

Total Metals	Method: 6010B	Preparation Method 3050B
Analysis Date: 10/22/09		Preparation Date: 10/19/09
Aluminum	12.2	5.0 mg/kg



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WL03-101509D  
**Sample No:** 9-4366-021

**Date Collected:** 10/15/09  
**Time Collected:** 10:48  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b>
Analysis Date:	10/22/09			Preparation Date: 10/19/09
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.0	0.2	mg/kg	
Barium	0.4	0.1	mg/kg	
Beryllium	< 0.1	0.1	mg/kg	
Cadmium	< 0.1	0.1	mg/kg	
Calcium	23	10	mg/kg	
Chromium	1.6	0.1	mg/kg	
Cobalt	0.2	0.1	mg/kg	
Copper	3.5	0.1	mg/kg	
Iron	141	1.0	mg/kg	
Lead	0.5	0.2	mg/kg	
Magnesium	< 10	10	mg/kg	
Manganese	1.7	0.1	mg/kg	
Nickel	0.9	0.1	mg/kg	
Potassium	1,860	10	mg/kg	
Selenium	1.9	0.2	mg/kg	
Silver	< 0.1	0.1	mg/kg	
Sodium	103,000	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	4.4	1.0	mg/kg	
Zinc	1,010	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/21/09			
Mercury	< 0.05	0.05	mg/kg	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>			<b>Preparation Method 3540C</b>
Analysis Date:	10/23/09			Preparation Date: 10/19/09
Aroclor 1016	< 500	80.0	ug/kg	
Aroclor 1221	< 500	80.0	ug/kg	
Aroclor 1232	< 500	80.0	ug/kg	
Aroclor 1242	< 500	80.0	ug/kg	
Aroclor 1248	< 500	80.0	ug/kg	
Aroclor 1254	< 500	160	ug/kg	
Aroclor 1260	< 500	160	ug/kg	



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### Analytical Report

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/15/09

**Project ID:** Anchor Metals SA

**Time Collected:** 14:35

**Sample ID:** AM-WP01-101509D

**Date Received:** 10/16/09

**Sample No:** 9-4366-022

**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Date Analyzed	Method	Flag
Cyanide, Total	71.0	0.10	mg/wipe	10/22/09	4500CN,C,E	



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### Analytical Report

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP01-101509D  
**Sample No:** 9-4366-022

**Date Collected:** 10/15/09  
**Time Collected:** 14:35  
**Date Received:** 10/16/09  
**Date Reported:** 11/02/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>			<b>Preparation Method 3050B</b>
Analysis Date:	10/22/09			Preparation Date: 10/19/09
Aluminum	7,780	5.0	mg/kg	
Antimony	49.3	1.0	mg/kg	
Arsenic	10.3	0.2	mg/kg	
Barium	787	0.1	mg/kg	
Beryllium	0.5	0.1	mg/kg	
Cadmium	30.3	0.1	mg/kg	
Calcium	66,100	10	mg/kg	
Chromium	948	0.1	mg/kg	
Cobalt	19.7	0.1	mg/kg	
Copper	824	0.1	mg/kg	
Iron	276,000	1.0	mg/kg	
Lead	213	0.2	mg/kg	
Magnesium	20,100	10	mg/kg	
Manganese	1,560	0.1	mg/kg	
Nickel	302	0.1	mg/kg	
Potassium	1,370	10	mg/kg	
Selenium	4.5	0.2	mg/kg	
Silver	1.3	0.1	mg/kg	
Sodium	8,920	10	mg/kg	
Thallium	< 3.0	1.0	mg/kg	
Vanadium	26.7	1.0	mg/kg	
Zinc	6,000	0.5	mg/kg	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/21/09			
Mercury	< 0.00075	0.0005	mg/wipe	



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### First Environmental Laboratories

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Naperville, Illinois 60563  
Phone: (630) 778-1200 • Fax: (630) 778-1233  
E-mail: firstinfo@firstenv.com  
IEPA Certification #100292

Company Name: WESTON SOLUTIONS

Street Address: 20 N. WACKER Drive SUITE 1210

City: CHICAGO

State: IL Zip: 60606

Phone (312) 424 - 3300 Fax:

e-mail: RICK.MEHL@WESTONSOLUTI

Send Report To: RICK MEHL

Via: Fax

e-mail

Sampled By: BRUNIARSKI & MUCCIANI

Project I.D.: ANCHOR METALS SA

P.O. #: \_\_\_\_\_

### Analyses

TOTAL VOC'S / TCL METALS / TCL SVCS / TOTAL METALS / TOTAL CHALCO / COEXISTENCY / THERMISTOR / PCB'S

Matrix Codes: S = Soil W = Water O = Other

Date/Time Taken	Sample Description	Matrix	TOTAL VOC'S	TCL METALS	TCL SVCS	TOTAL METALS	TOTAL CHALCO	COEXISTENCY	THERMISTOR	PCB'S	Comments	Lab I.D.
10/15/09 13:15	AM-W501-101509	O	X	X	X	X	X	X	X		9-4366-001	
13:20	AM-W502-101509		X	X	X	X	X	X	X		002	
13:25	AM-W503-101509		X	X	X	X	X	X	X		003	
13:30	AM-W504-101509		X	X	X	X	X	X	X		004	
13:35	AM-W505-101509		X	X	X	X	X	X	X		005	
13:40	AM-W506-101509		X	X	X	X	X	X	X		006	
13:45	AM-W507-101509		X		X	X	X	X	X		007	
13:50	AM-W508-101509			X	X	X	X	X	X		008	
13:55	AM-WL01-101509			X	X	X	X	X	X		009	
14:00	AM-WL02-101509			X	X	X	X	X	X		010	
14:05	AM-WL03-101509			X	X	X	X	X	X		011	
14:10	AM-WL04-101509			X	X	X	X	X	X		012	
14:15	AM-WL05-101509			X	X	X	X	X	X			
14:20	AM-WL06-101509			X	X	X	X	X	X			
14:25	AM-WL07-101509			X	X	X	X	X	X			
14:30	AM-WL08-101509			X	X	X	X	X	X			
14:35	AM-WL09-101509			X	X	X	X	X	X			

### FOR LAB USE ONLY:

Cooler Temperature: 0.1-6°C Yes  No  °C

Received within 6 hrs. of collection: \_\_\_\_\_

Ice Present: Yes  No

Sample Refrigerated: Yes  No

Refrigerator Temperature: \_\_\_\_\_ °C

5035 Vials Frozen: Yes  No

Freezer Temperature: \_\_\_\_\_ °C

Containers Received, Preserved:  Yes  No

Need to meet: IL.TACO  IN.RISC

Notes and Special Instructions: STANDARD TURN TIME (2 WEEKS)

Relinquished By: JMB

Date/Time 10/16/09 11:15

Received By: MCH

Date/Time

10/16/09 11:15

Relinquished By: \_\_\_\_\_

Date/Time \_\_\_\_\_

Received By: \_\_\_\_\_

Date/Time \_\_\_\_\_



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IEPA Certification #100292

### CHAIN OF CUSTODY RECORD

Page 2 of 2 pgs

Company Name: WESTON SOLUTIONS

Street Address: 20 N. WACKER DRIVE SUITE 1210

City: CHICAGO

State: IL

Zip: 60606

Phone: (312) 424-3300 Fax:

e-mail: RICK.MEHL@WESTONSOLUTIONS.COM

Send Report To: RICK MEHL

Via: Fax

e-mail

Sampled By: BRYAN ARSKI & MUSCATINI

Project I.D.: ANCHOR METALS SA

P.O. #: \_\_\_\_\_

Matrix Codes: S = Soil W = Water O = Other

Date/Time Taken	Sample Description	Matrix	CORROSIVITY	TCL METALS	TCL VOLTS	TCL SVOCs	TCL METALS	TOTAL CHLORIDE	TENACITY	RCRA	Comments	Lab I.D.
10/15/09 11:40	AM-WL05 - 101509	O	X									9-431db-013
14:40	AM-SS01 - 101509	S	X	X	X	X	X	X	X			014
14:20	AM-SS02 - 101509	S	X	X	X	X	X	X	X			015
14:30	AM-SS03 - 101509	S	X	X	X	X	X	X	X			016
14:35	AM-WP01 - 101509	O										017
14:40	AM-WP02 - 101509	O										018
14:45	AM-WP03 - 101509	O					X	X				019
13:25	AM-W503 - 101509D		X	X	X	X	X	X	X			620
10:40	AM-WL03 - 101509D		X	X	X	X	X	X	X			621
14:55	AM-WP01 - 101509D						X	X				622
			X	X	X	X						

#### FOR LAB USE ONLY:

Cooler Temperature: 0.1-6°C Yes  No  °C

Received within 6 hrs. of collection: \_\_\_\_\_

Ice Present: Yes  No

Sample Refrigerated: Yes  No

Refrigerator Temperature: \_\_\_\_\_ °C

5035 Vials Frozen: Yes  No

Freezer Temperature: \_\_\_\_\_ °C

Containers Received Preserved:  Yes  No

Need to meet: IL.TACO  IN.RISC

Notes and Special Instructions: STANDARD TURN TIME (2 weeks)

Relinquished By: JH

Date/Time 10/16/09 11:15

Received By: MJ

Date/Time

10/16/09 11:15

Relinquished By: \_\_\_\_\_

Date/Time \_\_\_\_\_

Received By: \_\_\_\_\_

Date/Time \_\_\_\_\_

Rev. 9/08



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November 20, 2009

Ms. Lisa Graczyk  
**DYNAMAC CORPORATION**  
**WESTON SOLUTIONS, INC.**  
20 N. Wacker Drive Suite 1210  
Chicago, IL 60606-2901

Project ID: Anchor Metals SA  
First Environmental File ID: 9-4366  
Date Received: October 16, 2009

Dear Ms. Lisa Graczyk:

Attached is the revised report for the project referenced above. These pages supersede the report previously submitted.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Lorrie Franklin  
Project Manager



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP01-101509  
**Sample No:** 9-4366-017

**Date Collected:** 10/15/09  
**Time Collected:** 14:35  
**Date Received:** 10/16/09  
**Date Reported:** 11/20/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b>	
Analysis Date:	10/22/09		Preparation Date:	10/19/09
Aluminum	4,290	5.0	mg/wipe	
Antimony	66.2	1.0	mg/wipe	
Arsenic	10.5	0.2	mg/wipe	
Barium	966	0.1	mg/wipe	
Beryllium	0.6	0.1	mg/wipe	
Cadmium	26.1	0.1	mg/wipe	
Calcium	71,800	10	mg/wipe	
Chromium	1,190	0.1	mg/wipe	
Cobalt	22.1	0.1	mg/wipe	
Copper	1,130	0.1	mg/wipe	
Iron	384,000	1.0	mg/wipe	
Lead	250	0.2	mg/wipe	
Magnesium	23,000	10	mg/wipe	
Manganese	1,700	0.1	mg/wipe	
Nickel	389	0.1	mg/wipe	
Potassium	1,470	10	mg/wipe	
Selenium	5.3	0.2	mg/wipe	
Silver	2.2	0.1	mg/wipe	
Sodium	10,200	10	mg/wipe	
Thallium	< 3.0	1.0	mg/wipe	
Vanadium	25.8	1.0	mg/wipe	
Zinc	9,000	0.5	mg/wipe	
<b>Cyanide, Total</b>	<b>Method: 4500CN,C,E</b>			
Analysis Date:	10/22/09			
Cyanide, Total	22.5	0.10	mg/wipe	
<b>Total Metals</b>	<b>Method: 7470A</b>			
Analysis Date:	10/21/09			
Mercury	< 0.00075	0.0005	mg/wipe	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP02-101509  
**Sample No:** 9-4366-018

**Date Collected:** 10/15/09  
**Time Collected:** 14:40  
**Date Received:** 10/16/09  
**Date Reported:** 11/20/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b> Analysis Date: 10/22/09	<b>Method: 6010B</b>		<b>Preparation Method 3050B</b> Preparation Date: 10/19/09	
Aluminum	299	5.0	mg/wipe	
Antimony	60.4	1.0	mg/wipe	
Arsenic	< 0.6	0.2	mg/wipe	
Barium	5.4	0.1	mg/wipe	
Beryllium	0.2	0.1	mg/wipe	
Cadmium	0.2	0.1	mg/wipe	
Calcium	2,410	10	mg/wipe	
Chromium	10.7	0.1	mg/wipe	
Cobalt	0.2	0.1	mg/wipe	
Copper	4.9	0.1	mg/wipe	
Iron	3,290	1.0	mg/wipe	
Lead	2.2	0.2	mg/wipe	
Magnesium	793	10	mg/wipe	
Manganese	16.6	0.1	mg/wipe	
Nickel	2.2	0.1	mg/wipe	
Potassium	98	10	mg/wipe	
Selenium	< 0.6	0.2	mg/wipe	
Silver	< 0.3	0.1	mg/wipe	
Sodium	2,920	10	mg/wipe	
Thallium	< 3.0	1.0	mg/wipe	
Vanadium	1.7	1.0	mg/wipe	
Zinc	451	0.5	mg/wipe	
<b>Cyanide, Total</b> Analysis Date: 10/22/09	<b>Method: 4500CN,C,E</b>			
Cyanide, Total	7.96	0.10	mg/wipe	
<b>Total Metals</b> Analysis Date: 10/21/09	<b>Method: 7470A</b>			
Mercury	< 0.00075	0.0005	mg/wipe	



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**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** Anchor Metals SA  
**Sample ID:** AM-WP03-101509  
**Sample No:** 9-4366-019

**Date Collected:** 10/15/09  
**Time Collected:** 14:45  
**Date Received:** 10/16/09  
**Date Reported:** 11/20/09

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>				<b>Preparation Method 3050B</b>
Analysis Date:	10/22/09			Preparation Date: 10/19/09
Aluminum	459	5.0	mg/wipe	
Antimony	65.4	1.0	mg/wipe	
Arsenic	< 0.6	0.2	mg/wipe	
Barium	8.4	0.1	mg/wipe	
Beryllium	0.2	0.1	mg/wipe	
Cadmium	0.3	0.1	mg/wipe	
Calcium	12,500	10	mg/wipe	
Chromium	32.3	0.1	mg/wipe	
Cobalt	11.8	0.1	mg/wipe	
Copper	19.0	0.1	mg/wipe	
Iron	5,250	1.0	mg/wipe	
Lead	8.7	0.2	mg/wipe	
Magnesium	574	10	mg/wipe	
Manganese	55.2	0.1	mg/wipe	
Nickel	13.7	0.1	mg/wipe	
Potassium	119	10	mg/wipe	
Selenium	< 0.6	0.2	mg/wipe	
Silver	0.8	0.1	mg/wipe	
Sodium	3,630	10	mg/wipe	
Thallium	< 3.0	1.0	mg/wipe	
Vanadium	1.2	1.0	mg/wipe	
Zinc	460	0.5	mg/wipe	
<b>Cyanide, Total</b>				<b>Method: 4500CN,C,E</b>
Analysis Date:	10/22/09			
Cyanide, Total	5.34	0.10	mg/wipe	
<b>Total Metals</b>				<b>Method: 7470A</b>
Analysis Date:	10/21/09			
Mercury	< 0.00075	0.0005	mg/wipe	